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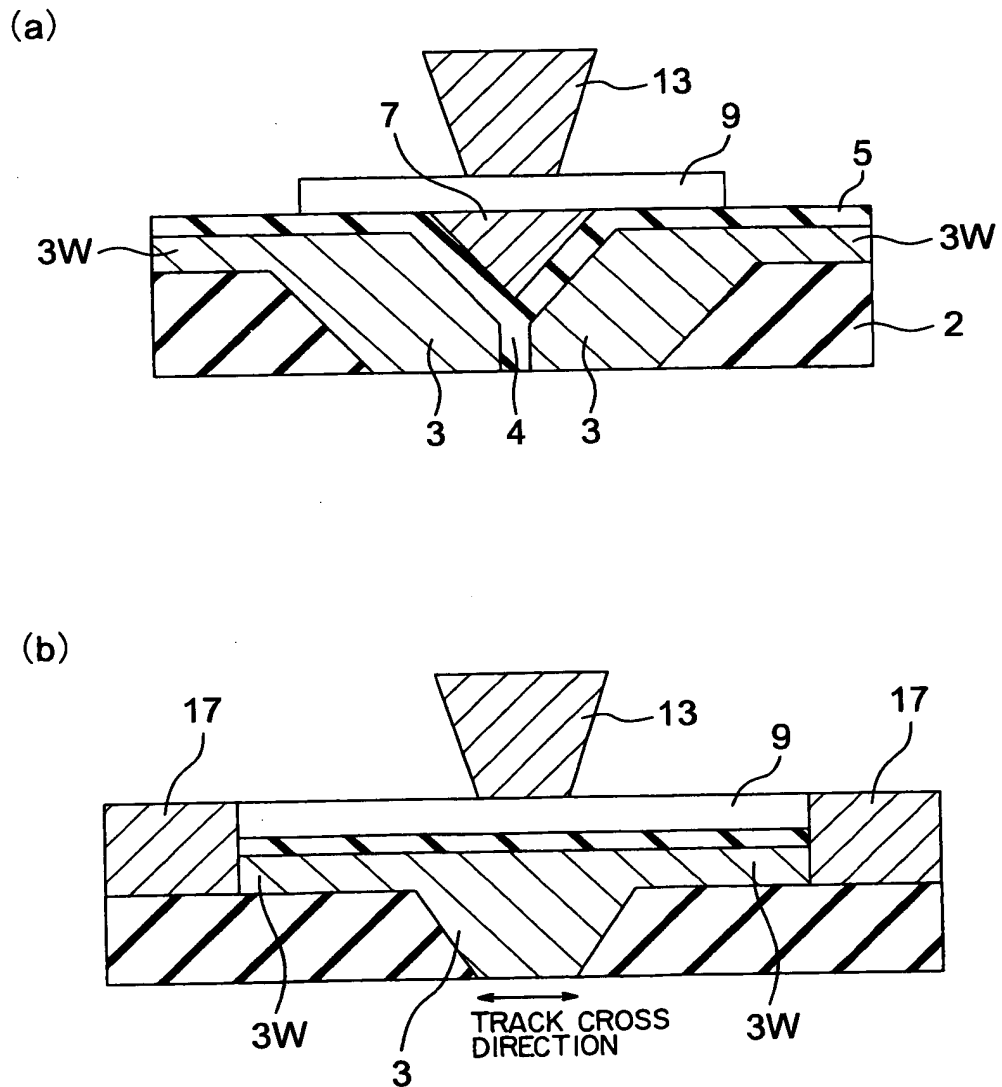
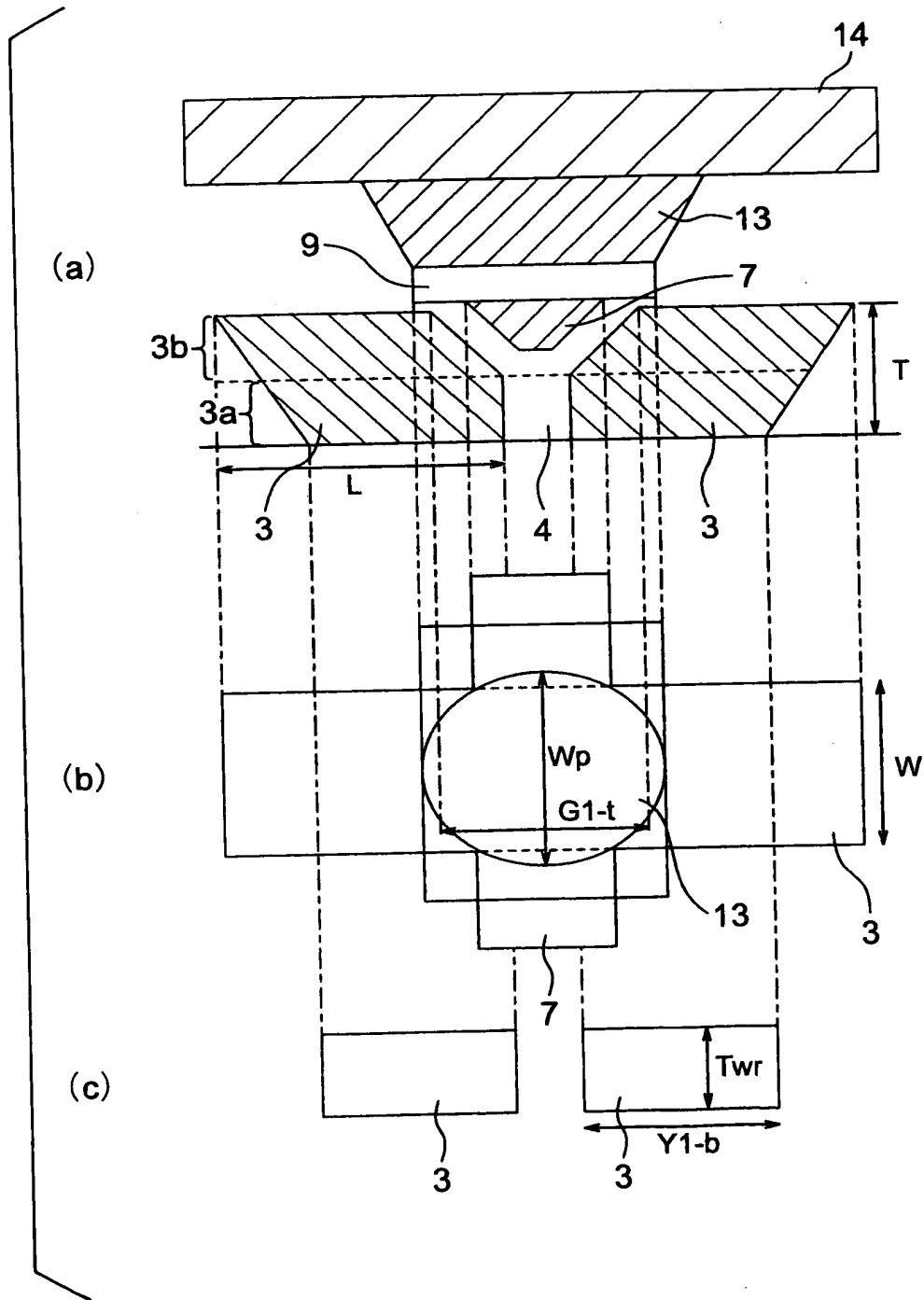


FIG. 1

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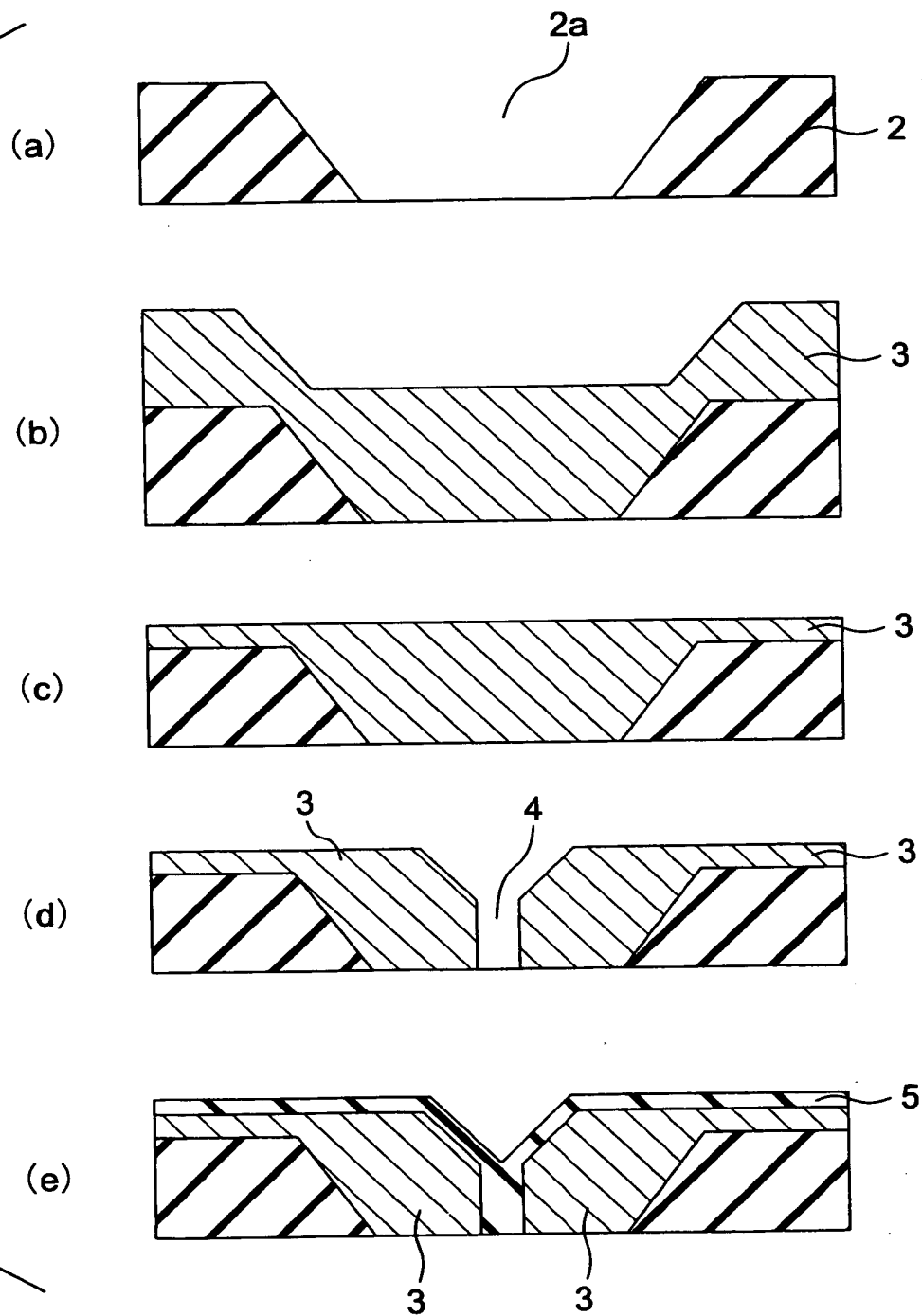


FIG. 3

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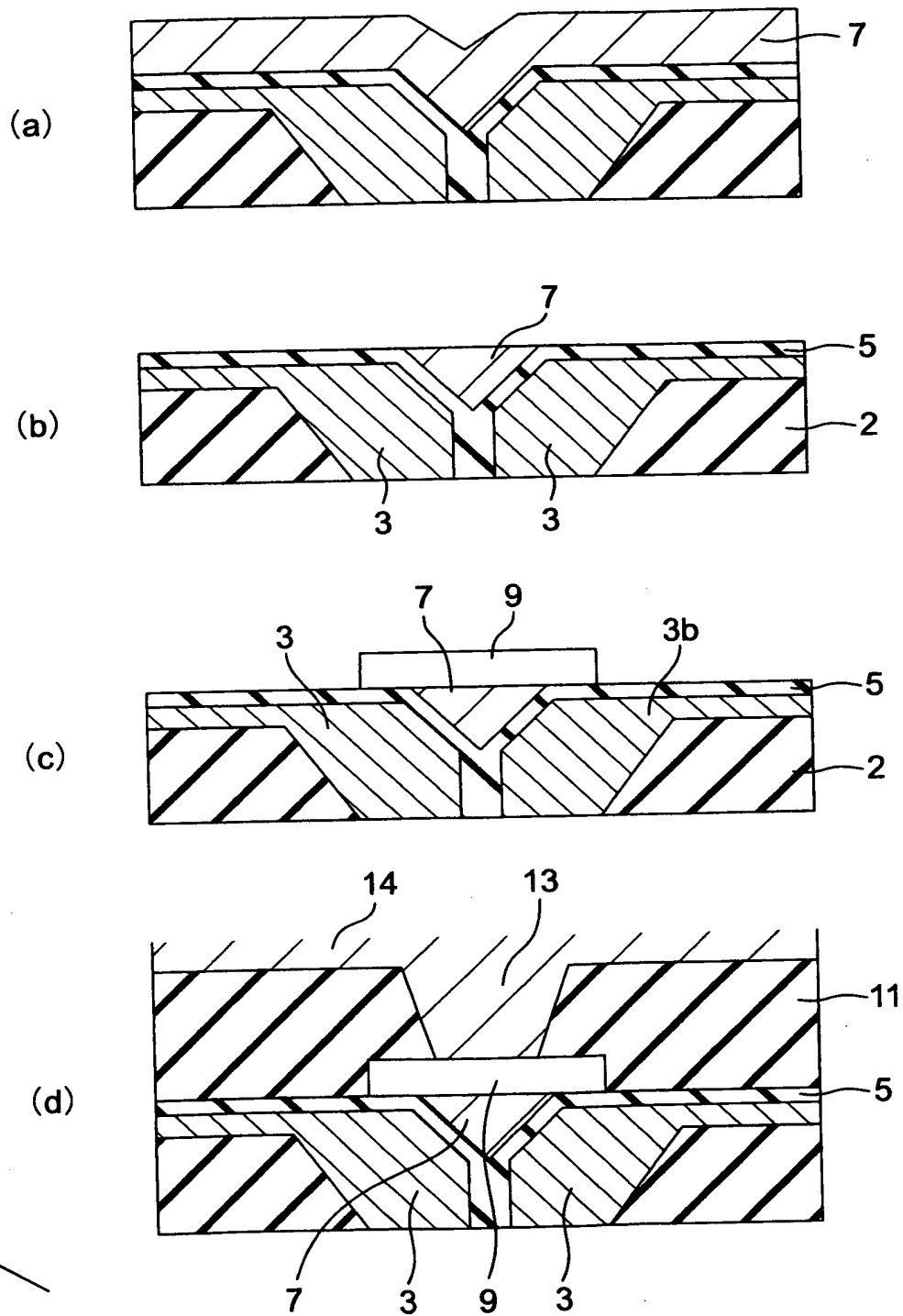


FIG. 4

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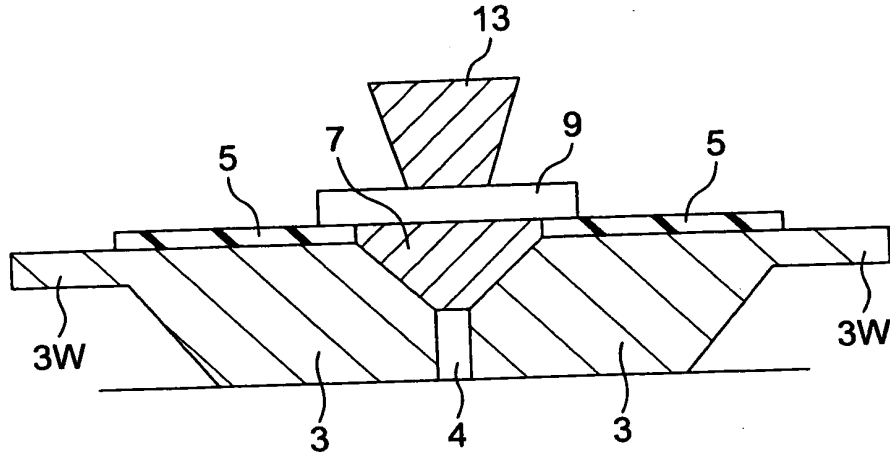


FIG. 5

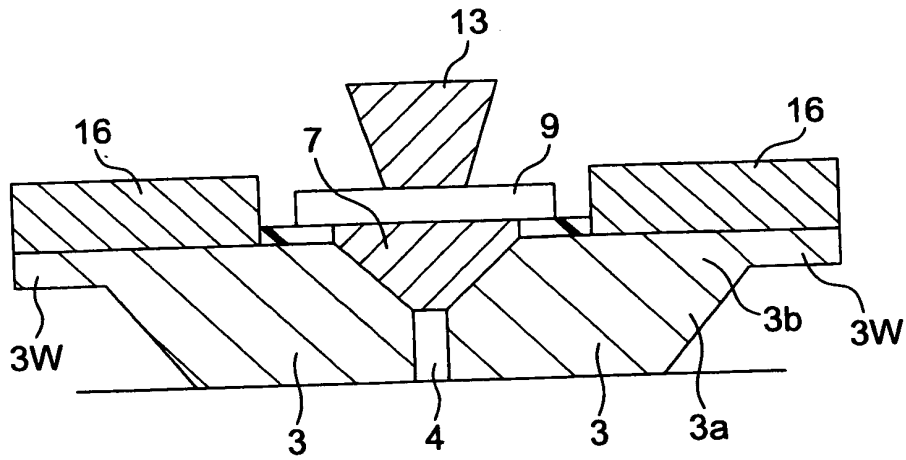


FIG. 6

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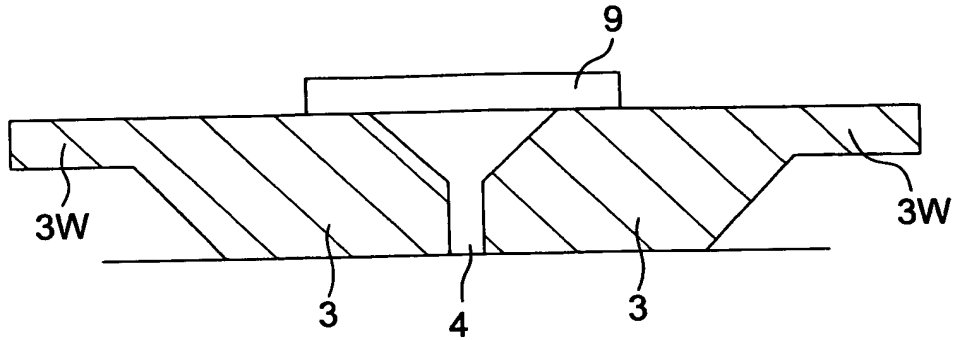


FIG. 7

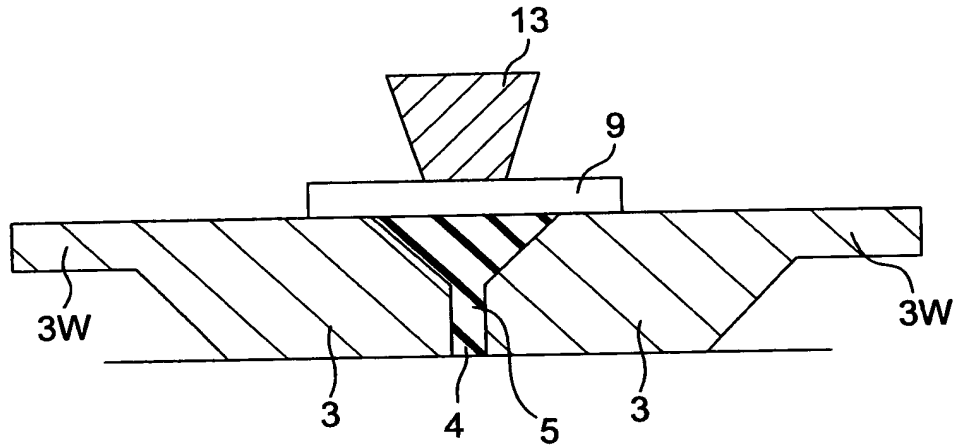


FIG. 8

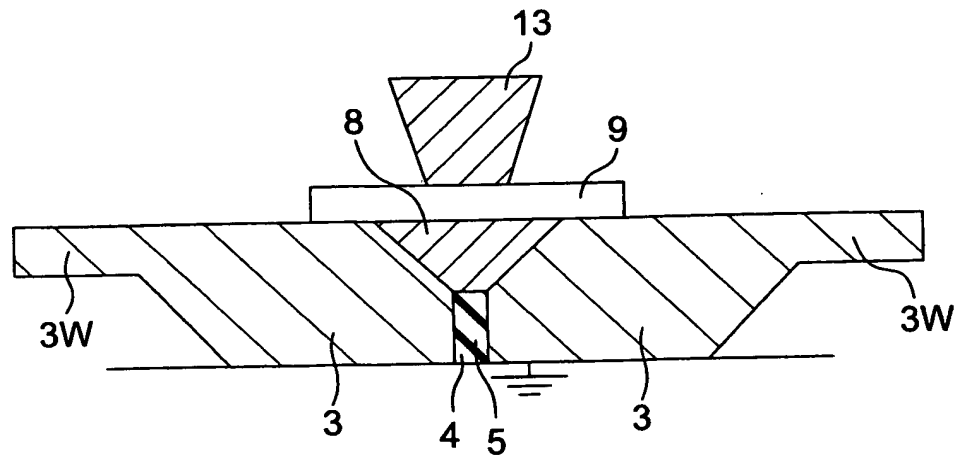


FIG. 9

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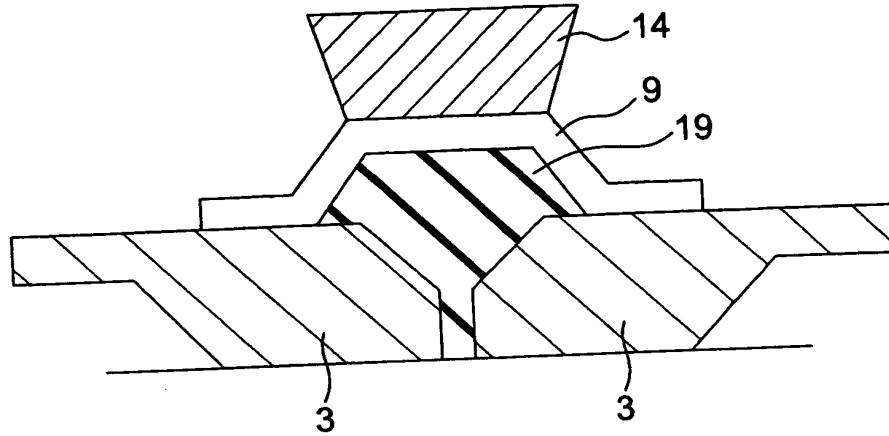


FIG. 10

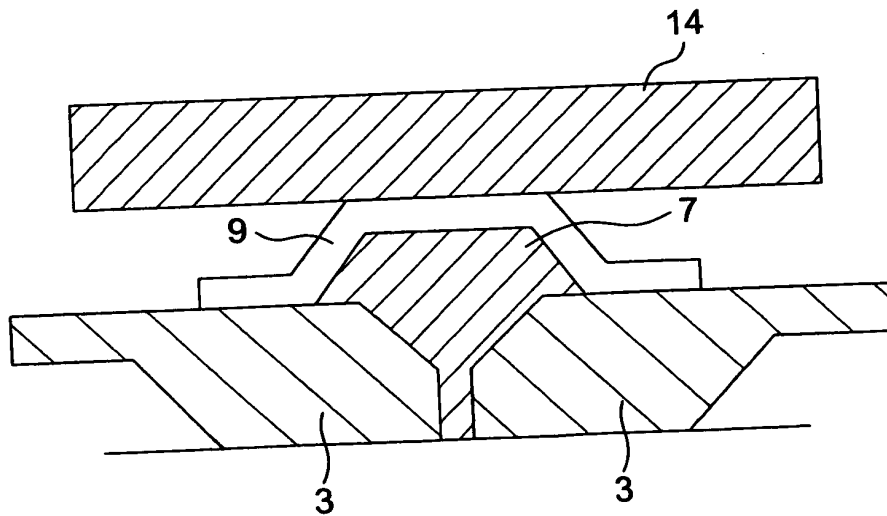


FIG. 11

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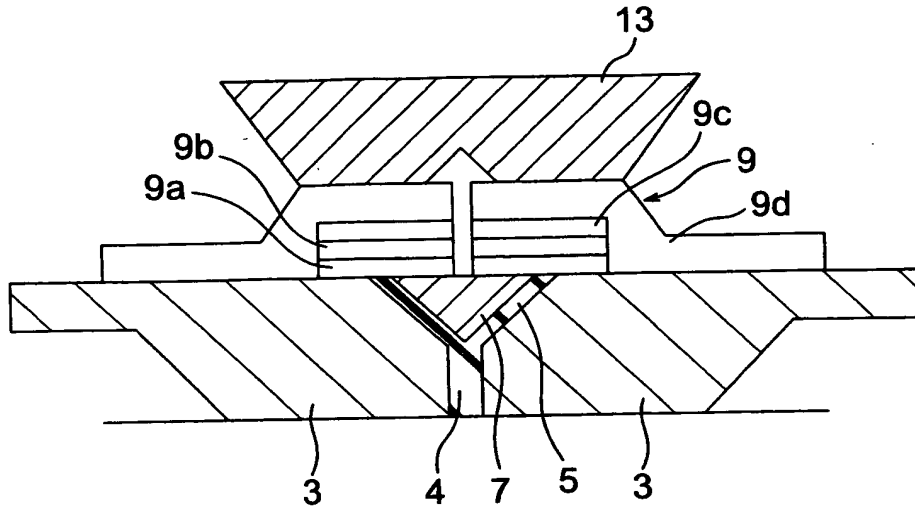


FIG. 12

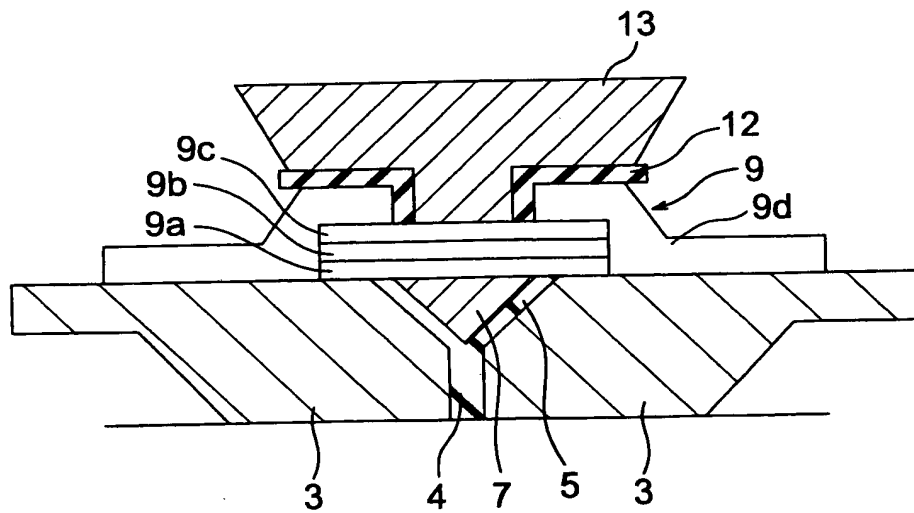


FIG. 13

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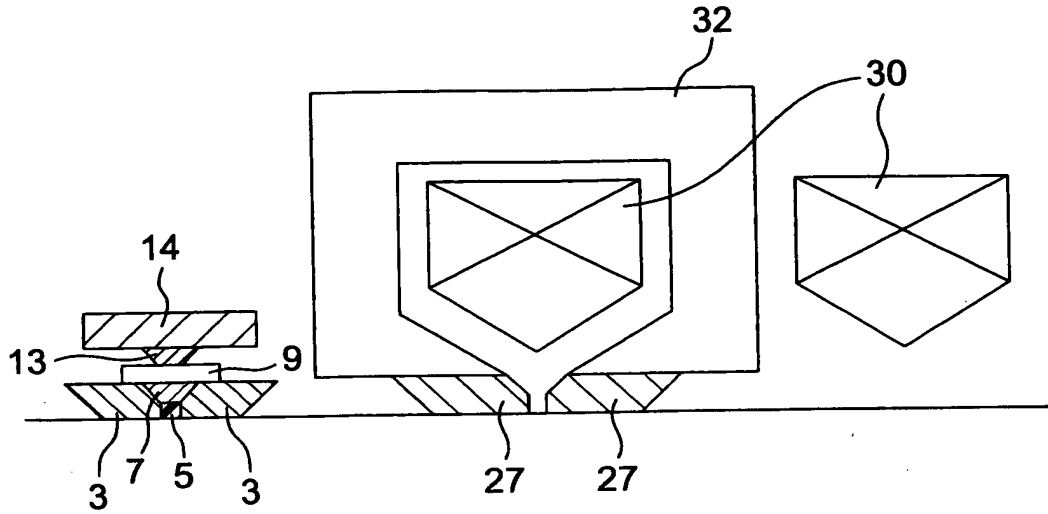


FIG. 14

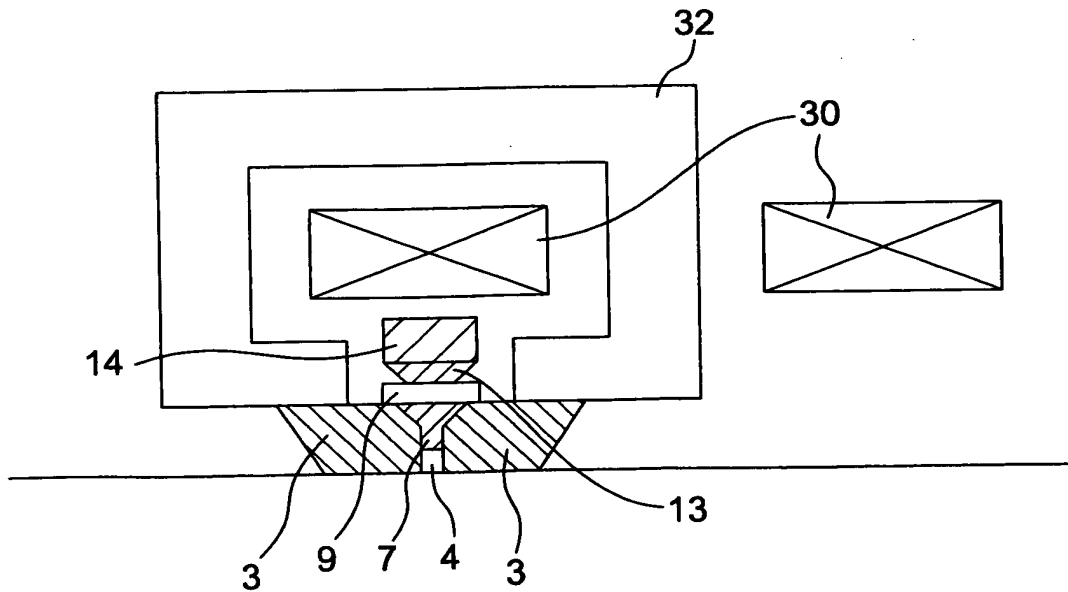
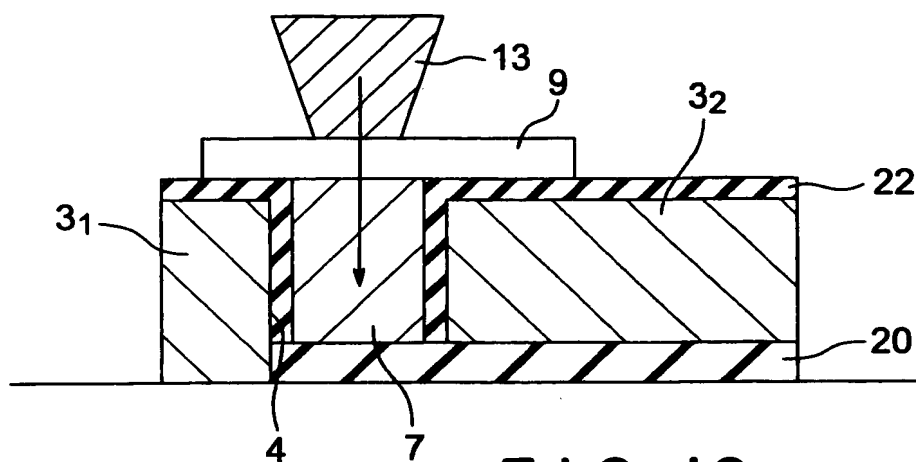


FIG. 15

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FIG. 14

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**FIG. 16**

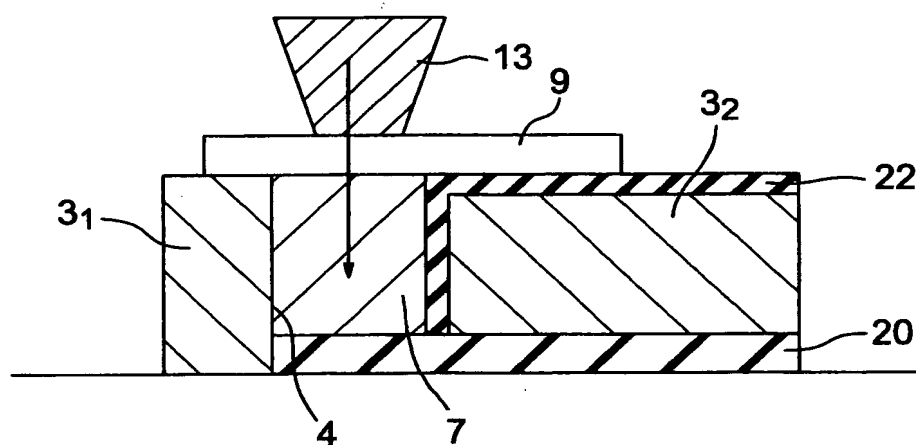


FIG. 17

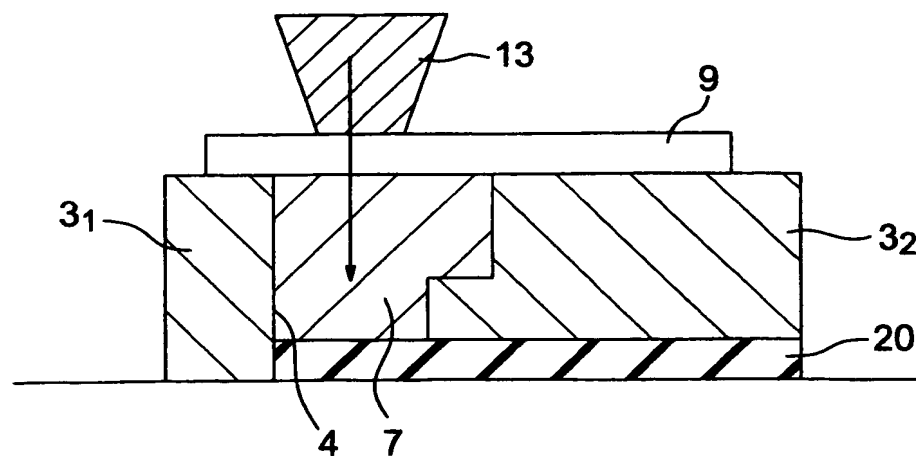


FIG. 18

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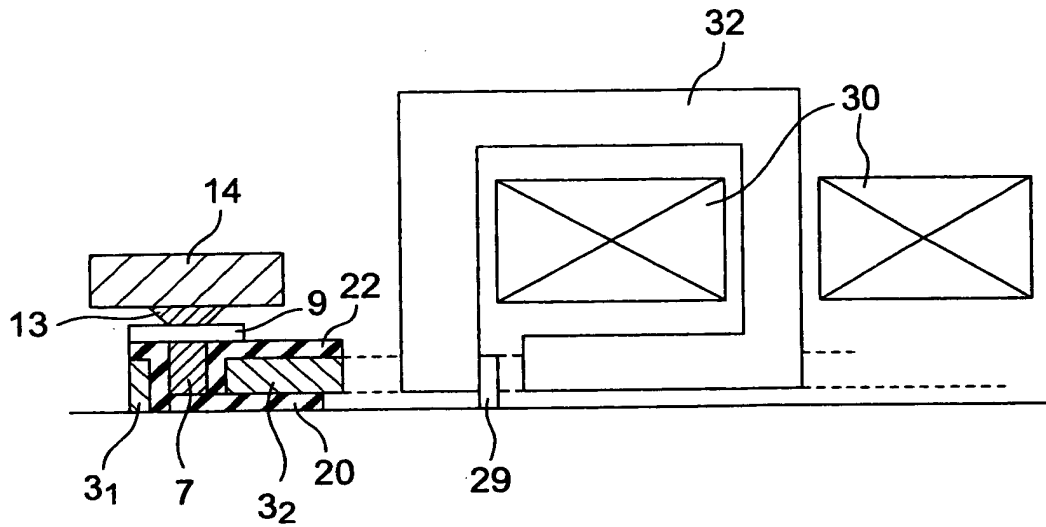


FIG. 19

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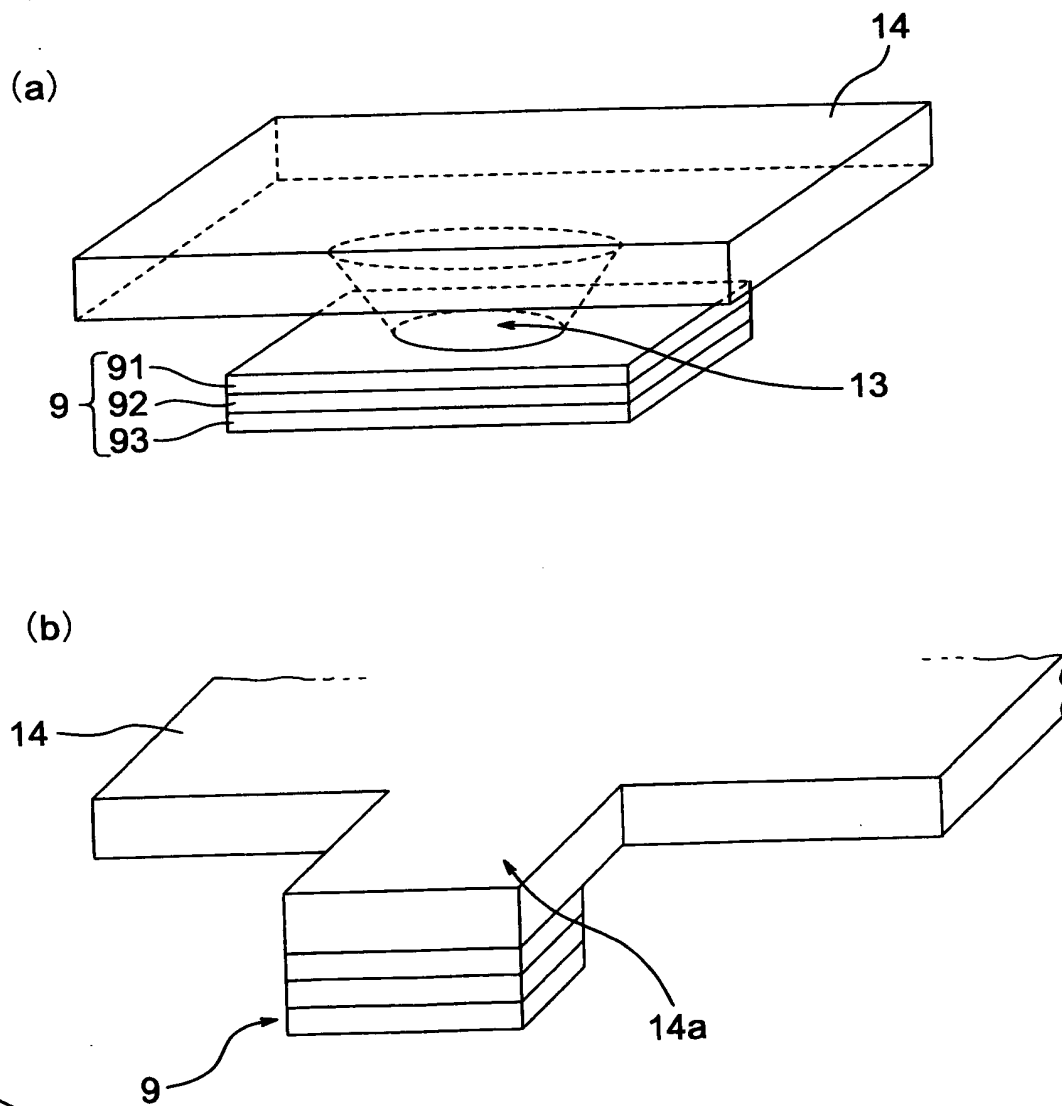


FIG. 20

Figure 1 consists of two views of a magnetic head assembly 3.   
 (a) Cross-sectional view: The head assembly 3 is mounted on a substrate 14. It features a medium-facing surface 4 and a center of coordinate. The assembly includes a gap layer 9 with sub-layers 9a, 9b, 9c, 9d, 9e, and 9f. Other components include 26, 27, 3a, 3b, 4, Gu, Ly1, Ly2, Ly3, Hyw, Hyb, Hy, Gb, and Wp. A coordinate system with Z (vertical) and Y (horizontal) axes is shown.   
 (b) Plan view: This view shows the head assembly 3 from above. It includes dimensions Wy1, Wy2, Wy3, Lp, Lf, and Wf. A coordinate system with X (vertical) and Y (horizontal) axes is shown. The assembly is labeled with 3a, 3b, and 9.

FIG. 21

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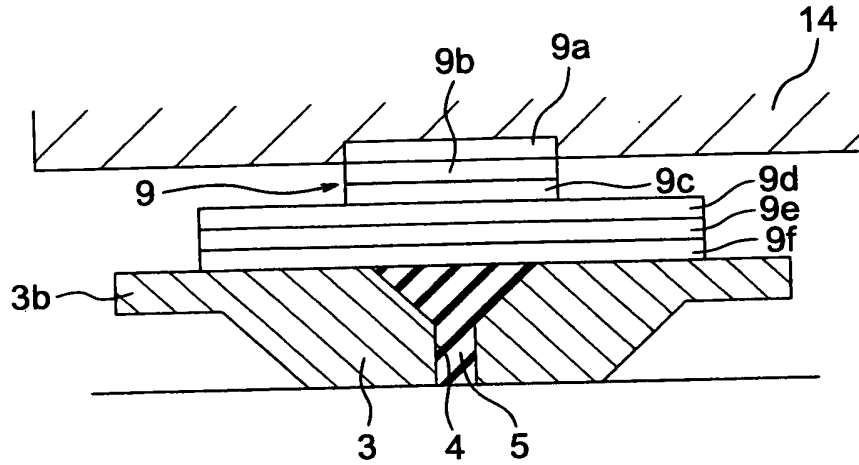


FIG. 22

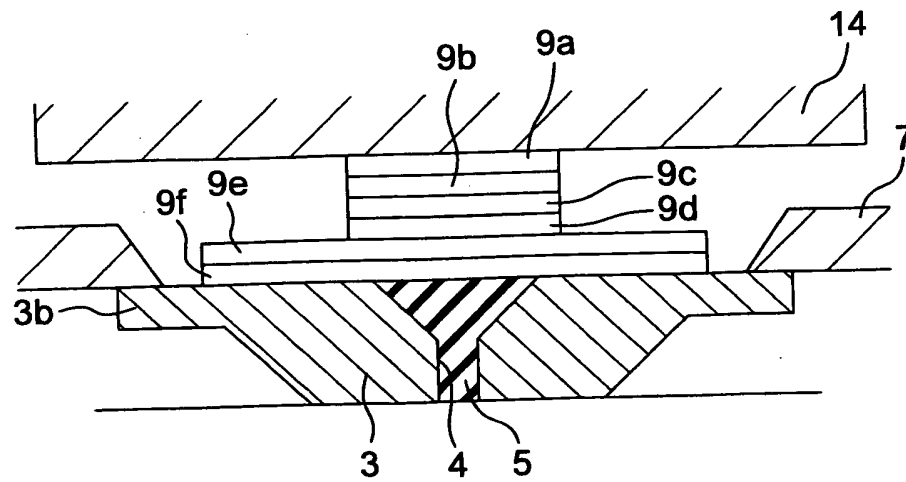


FIG. 23

FIG. 22

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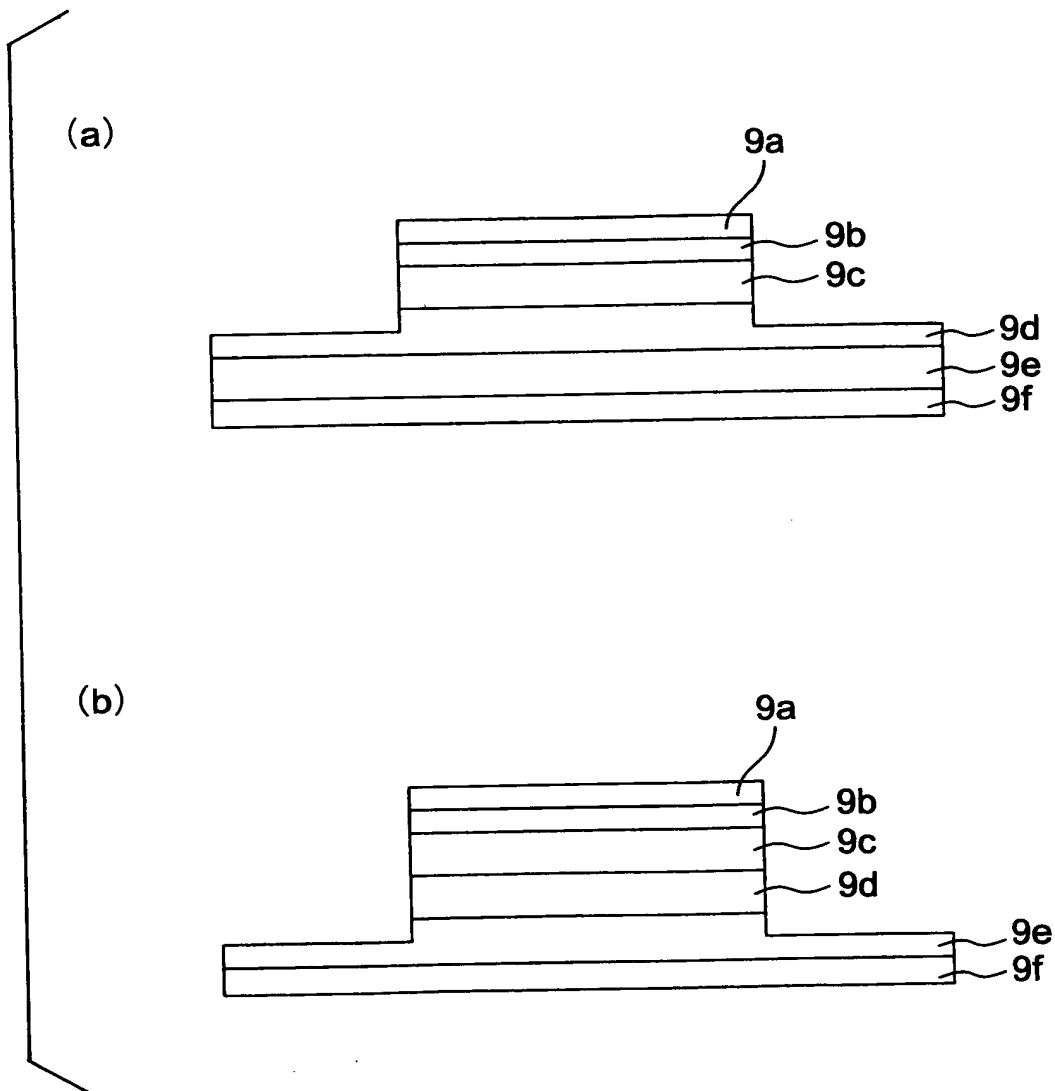


FIG. 24

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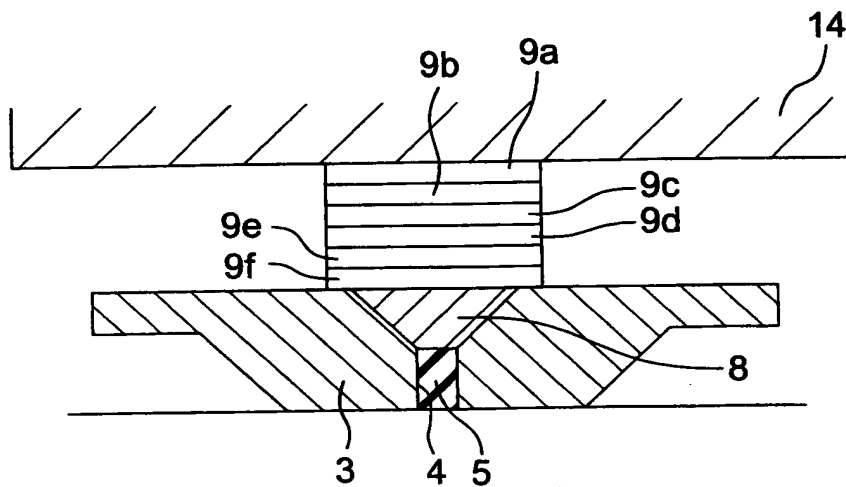


FIG. 25

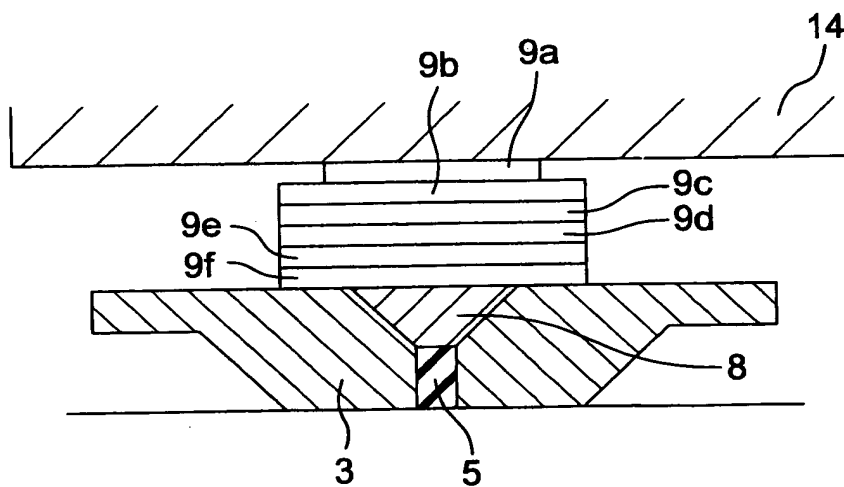


FIG. 26

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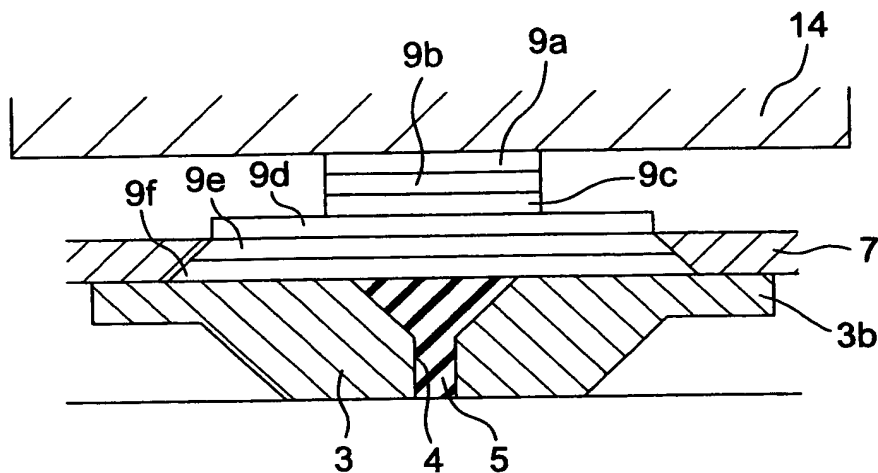


FIG. 29

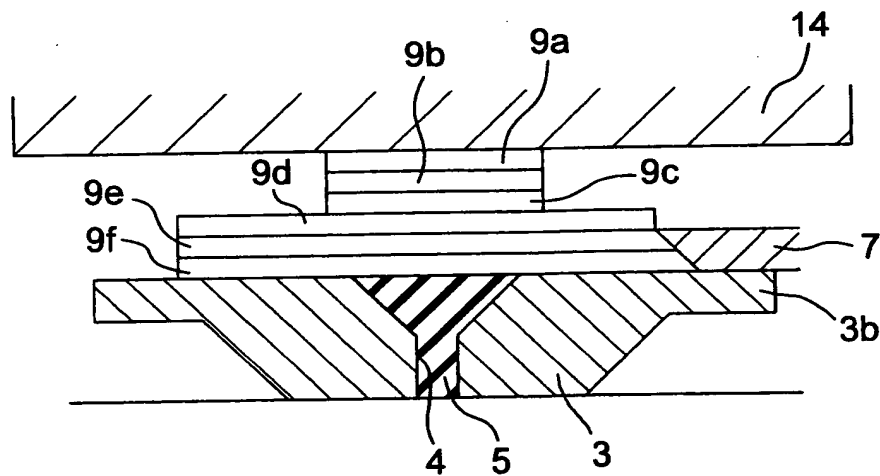
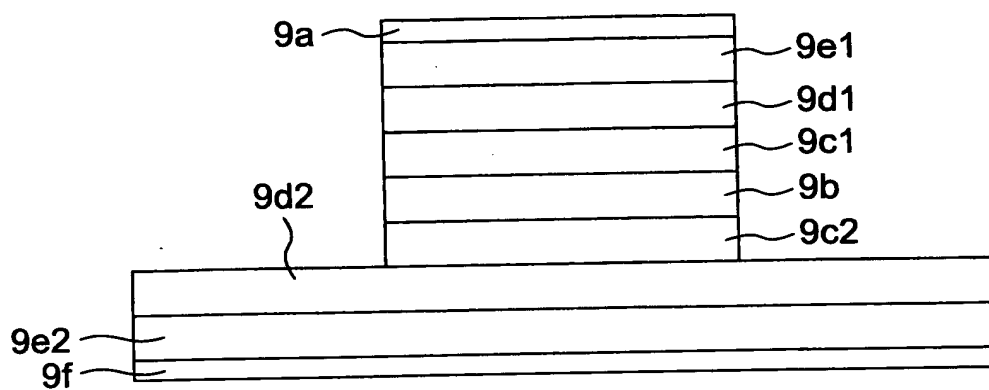


FIG. 30

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(a)



(b)

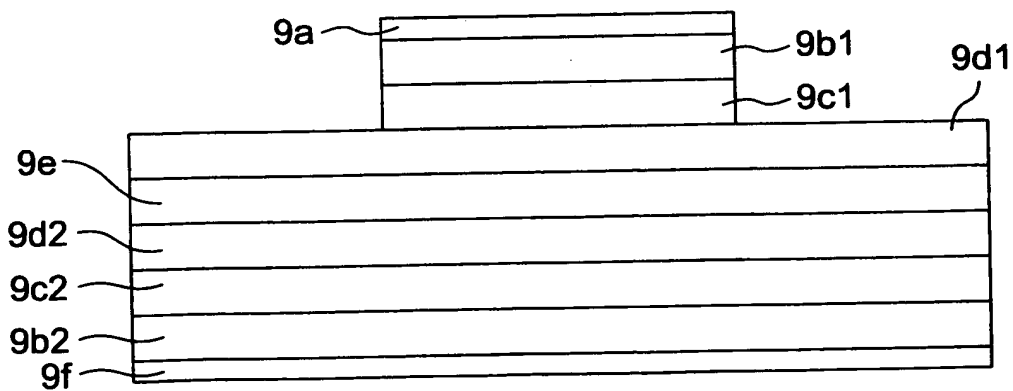
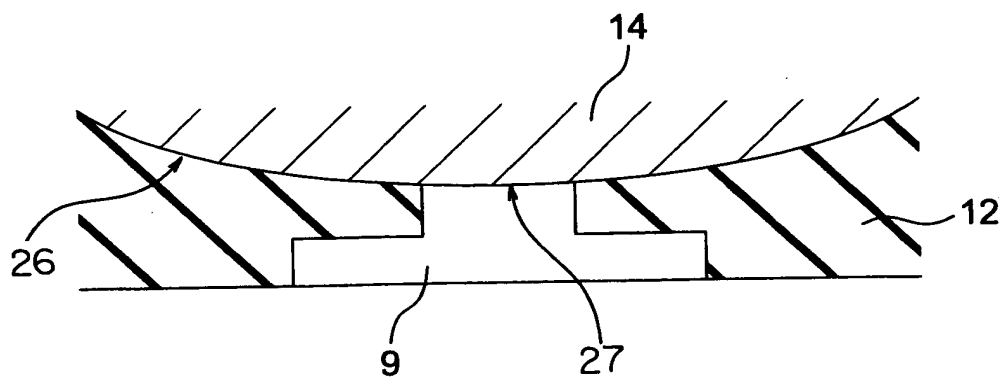


FIG. 31

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(a)



(b)

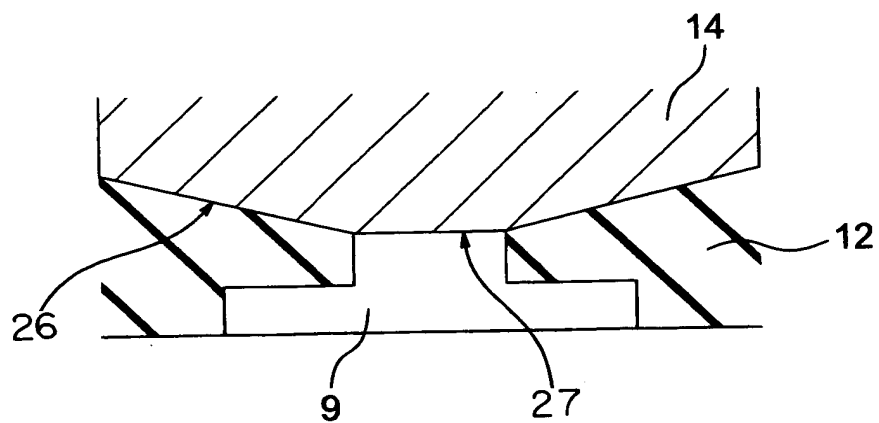
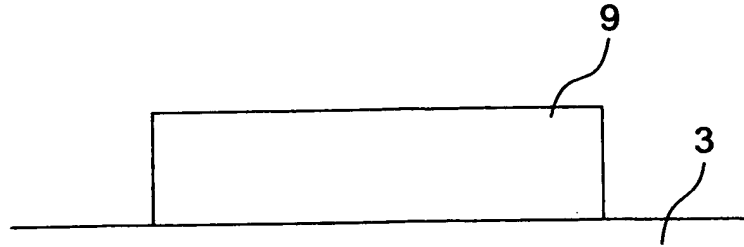


FIG. 32

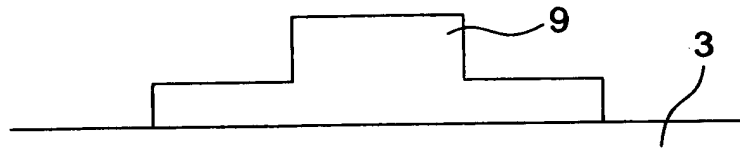
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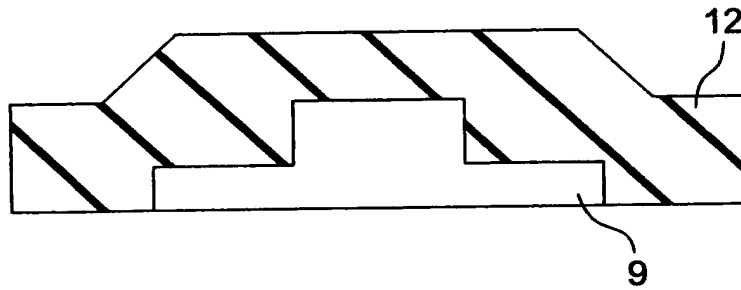
(a)



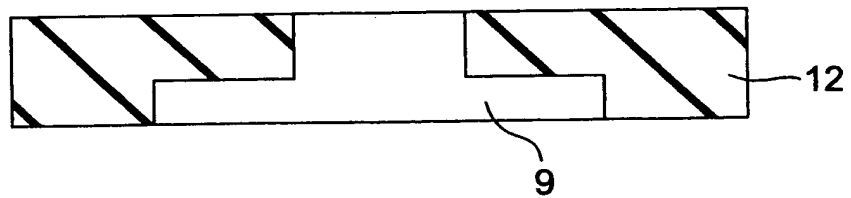
(b)



(c)



(d)



(e)

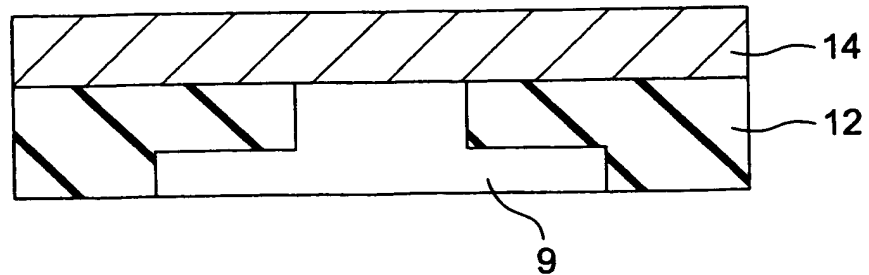
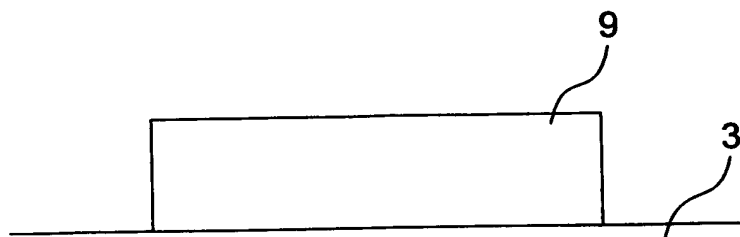


FIG. 33

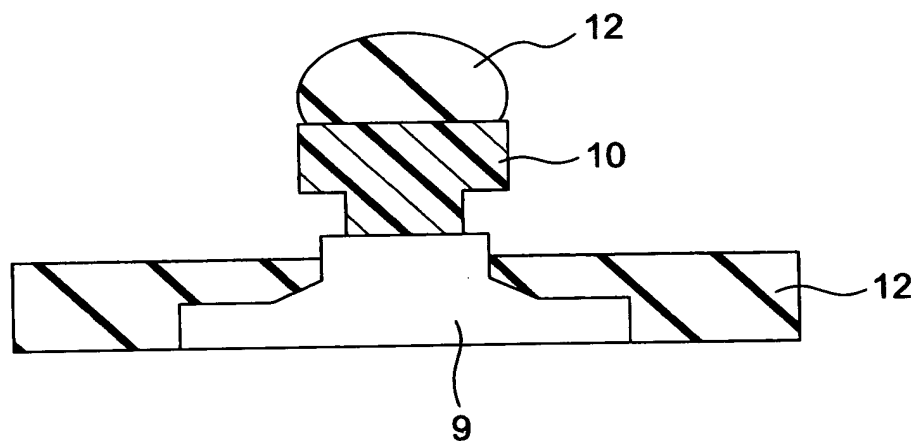
09942627.003101

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(a)



(b)



(c)

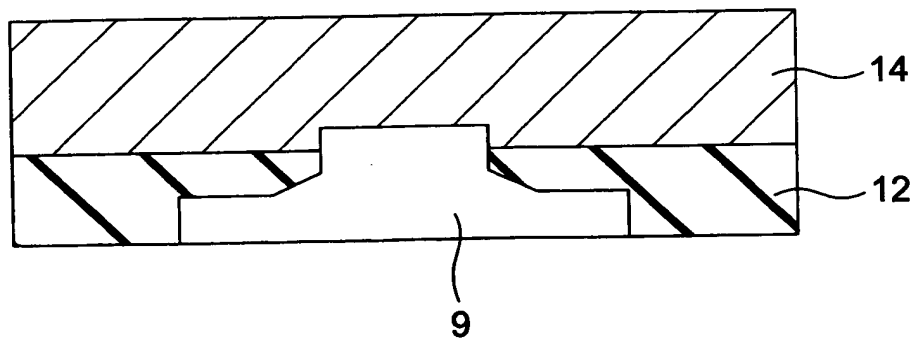


FIG. 34

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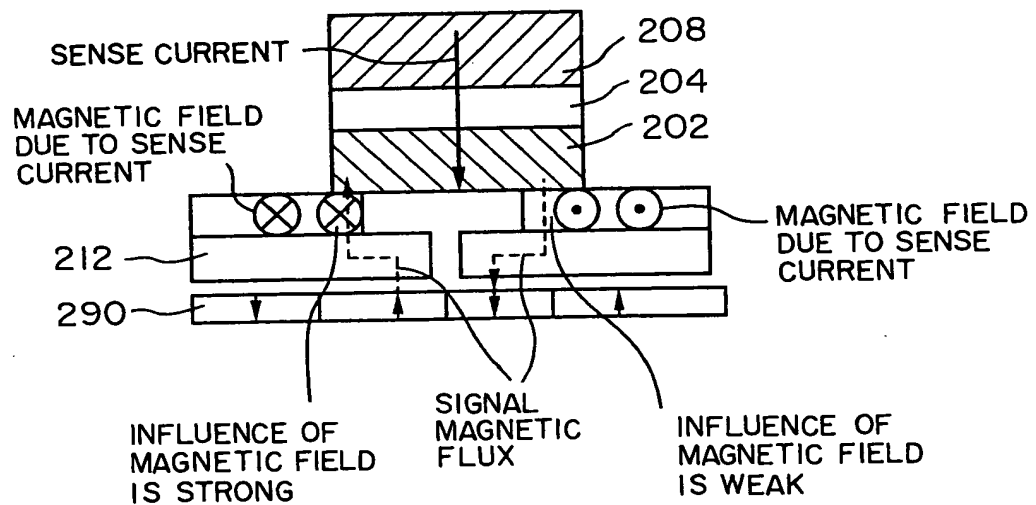


FIG. 35

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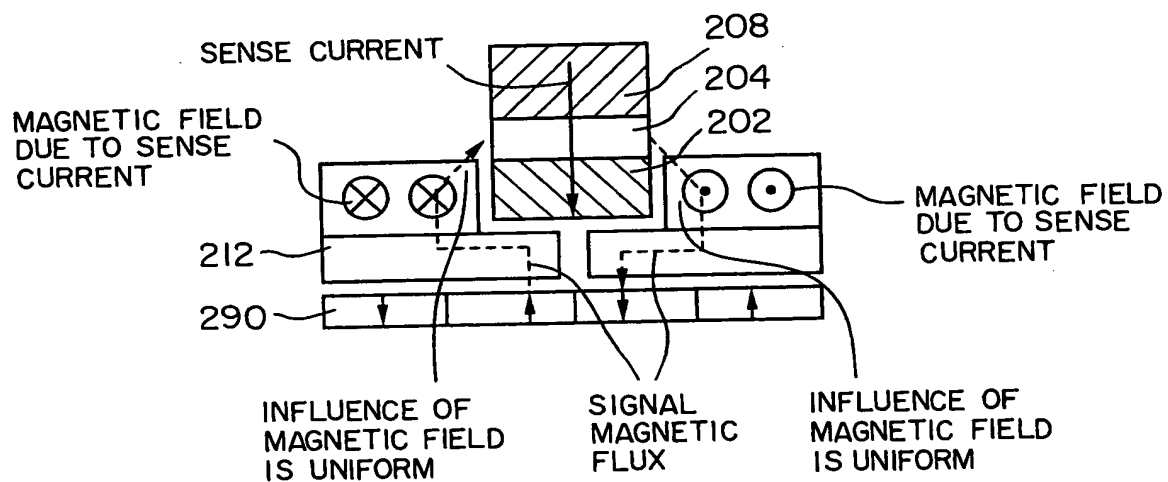


FIG. 36

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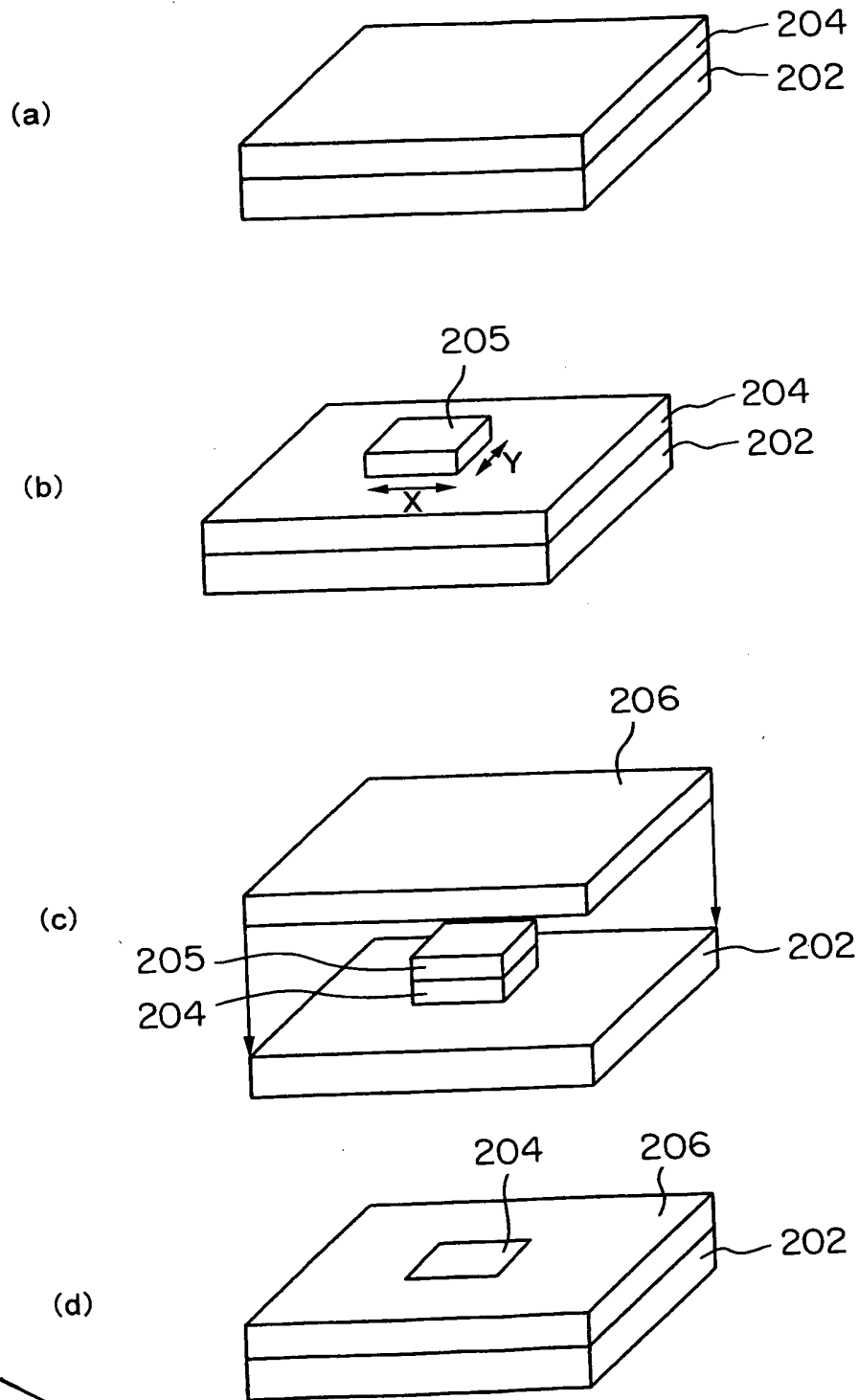


FIG. 37

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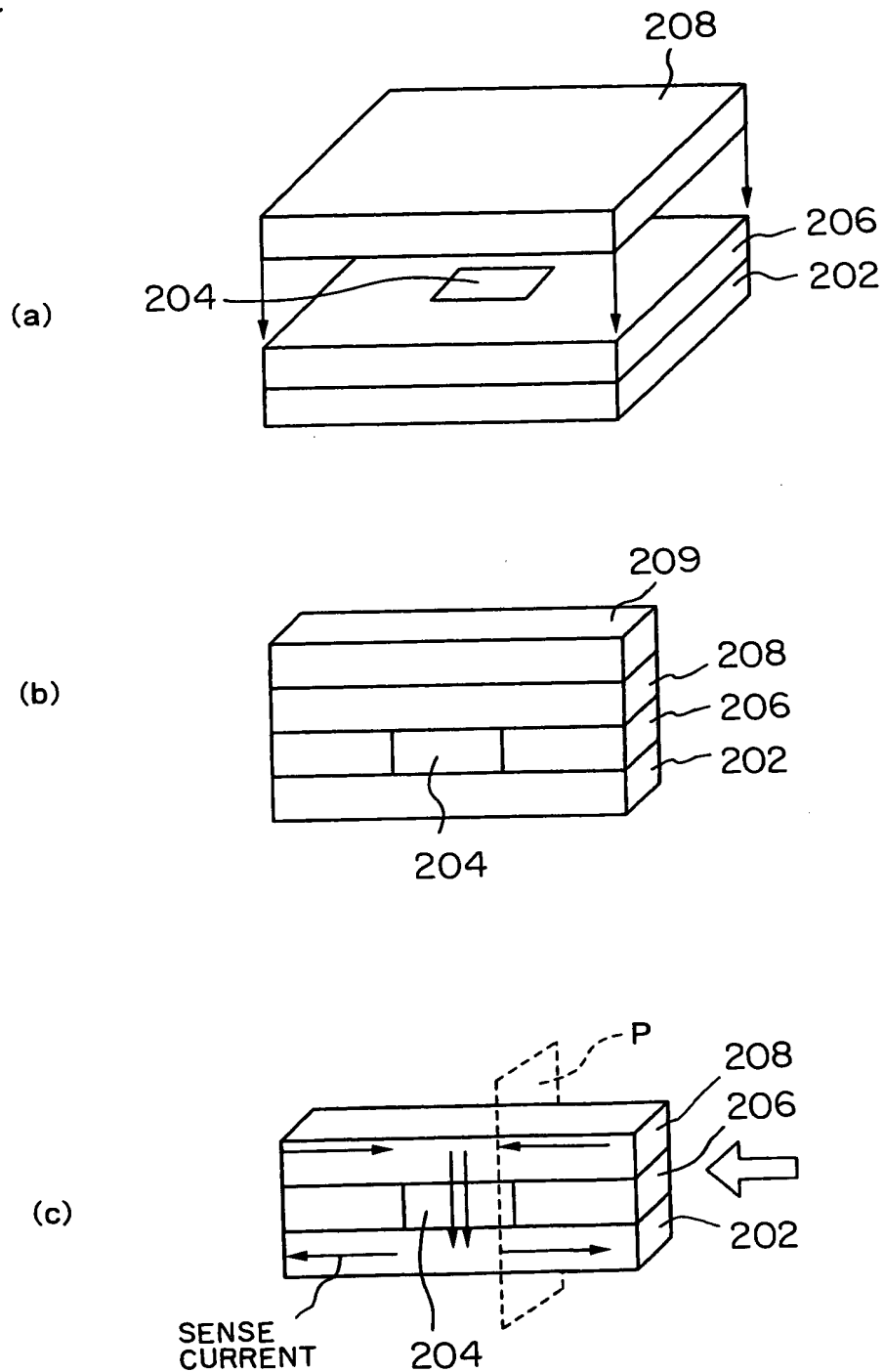


FIG. 38

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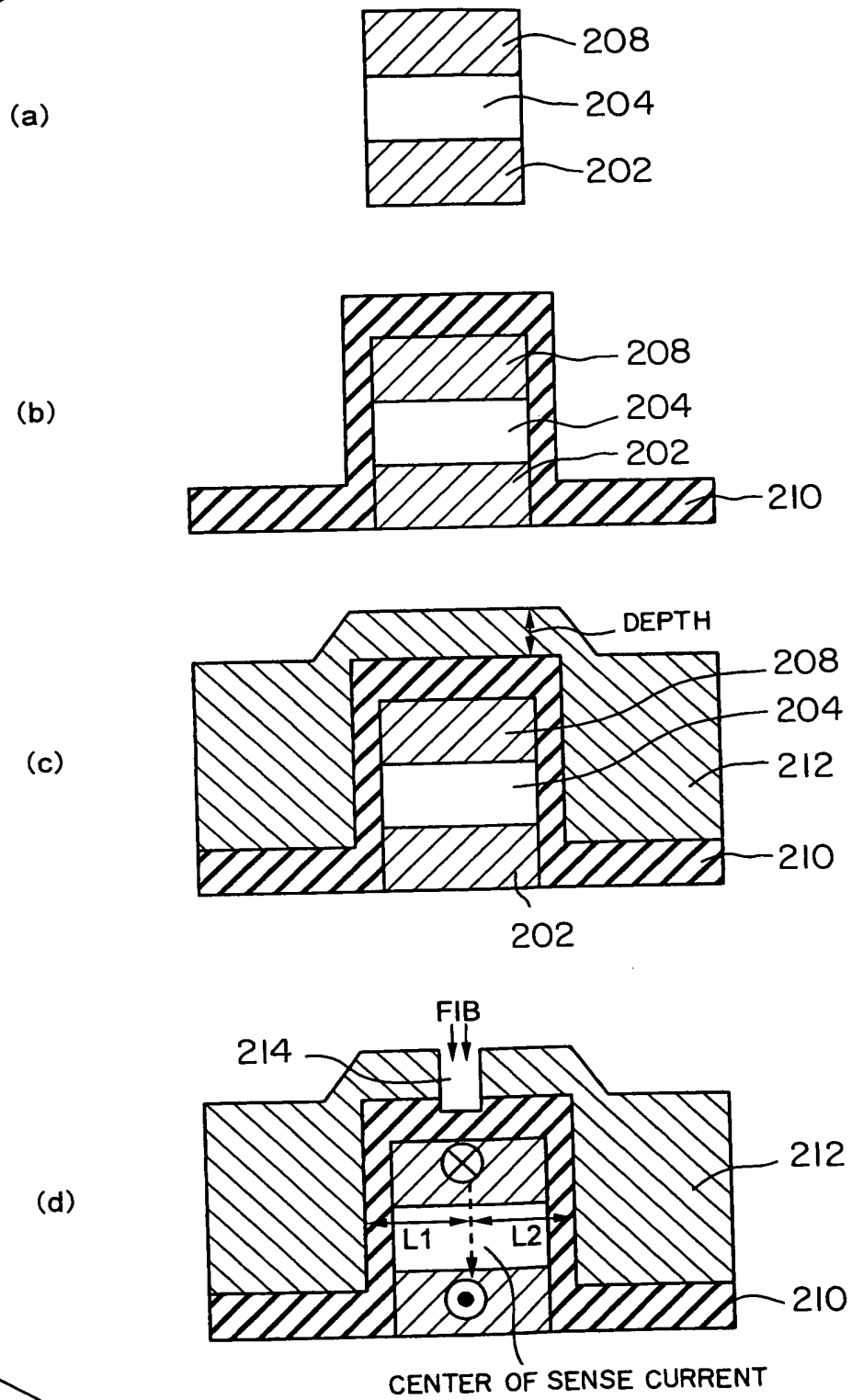


FIG. 39

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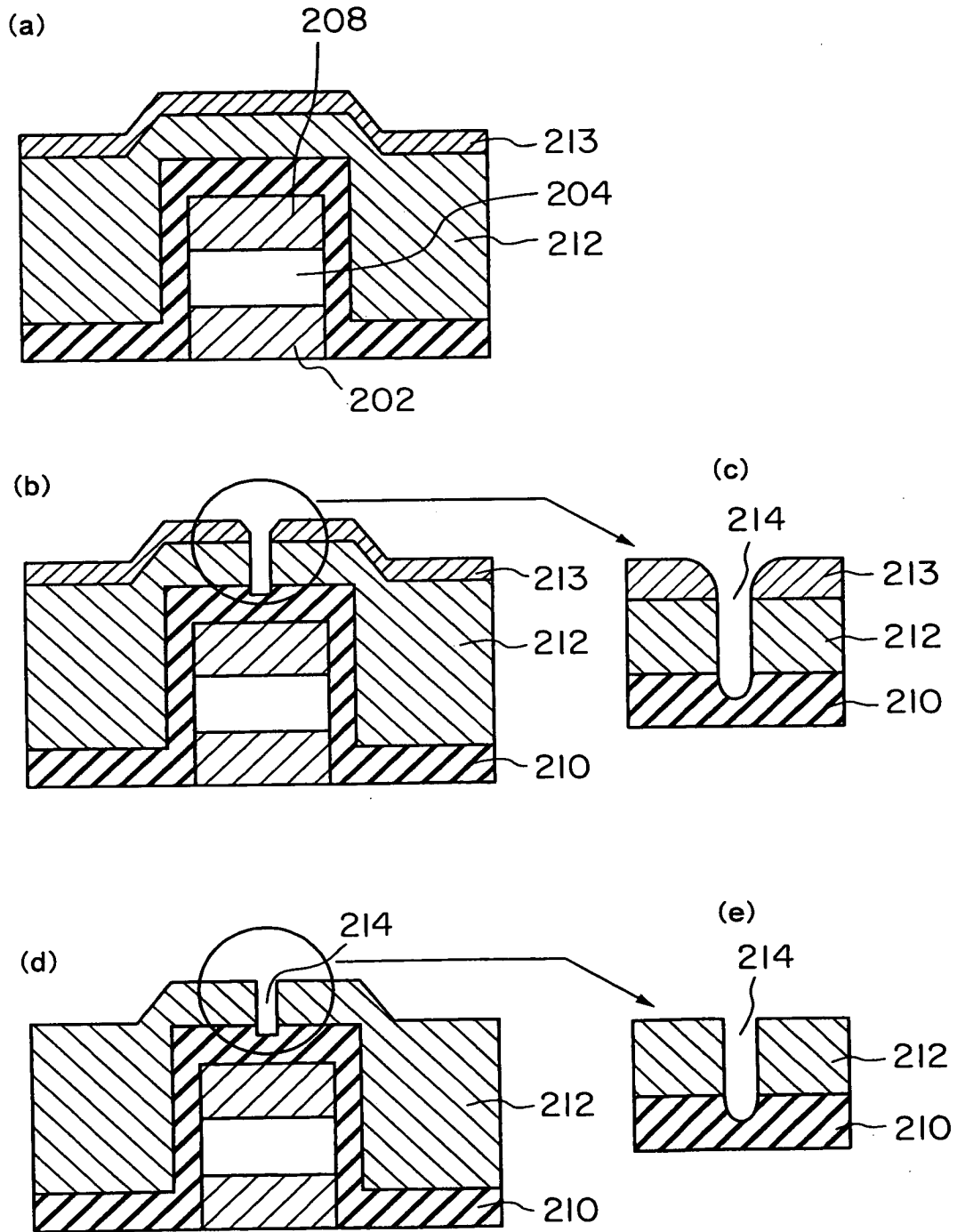


FIG. 40

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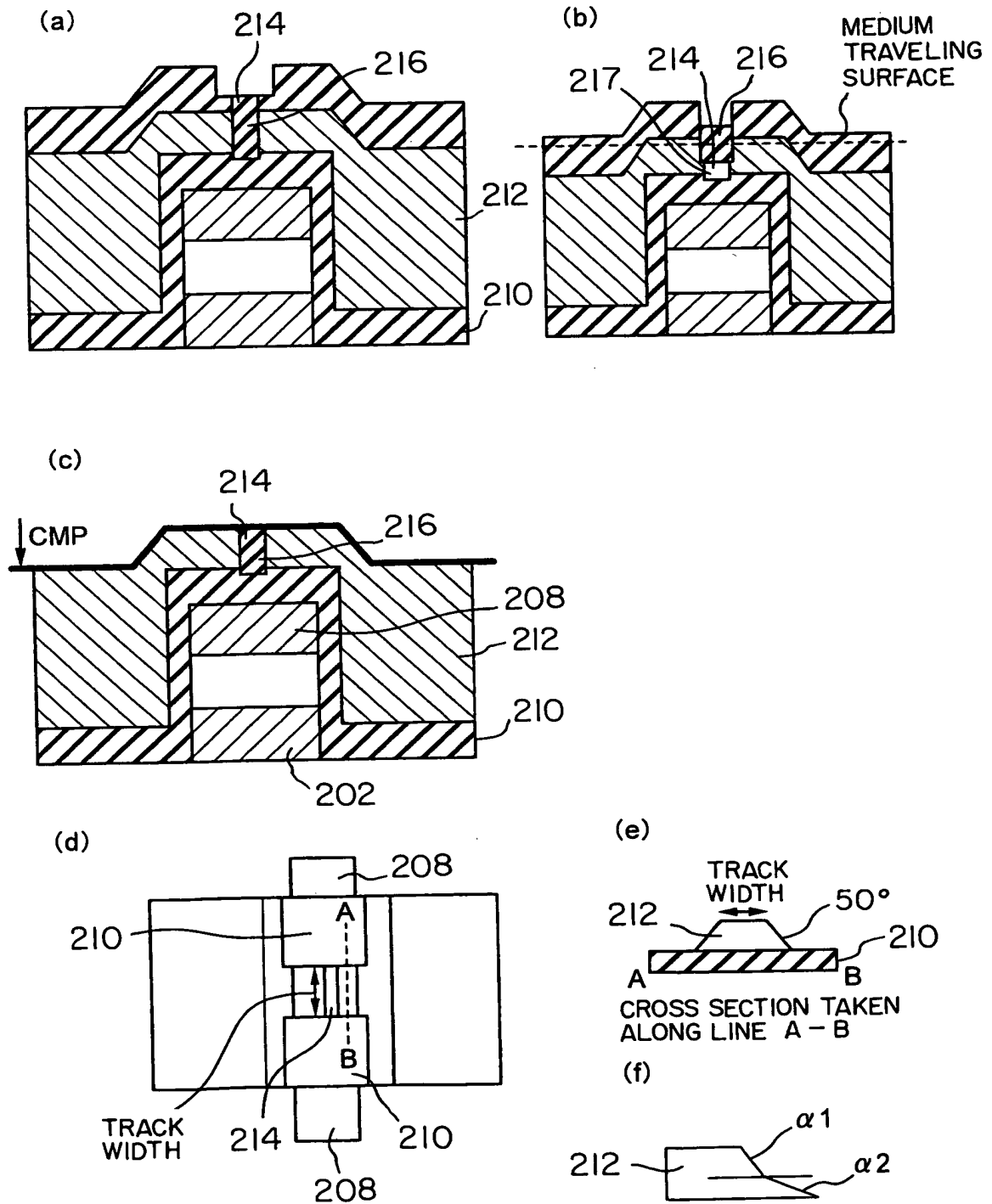


FIG. 41

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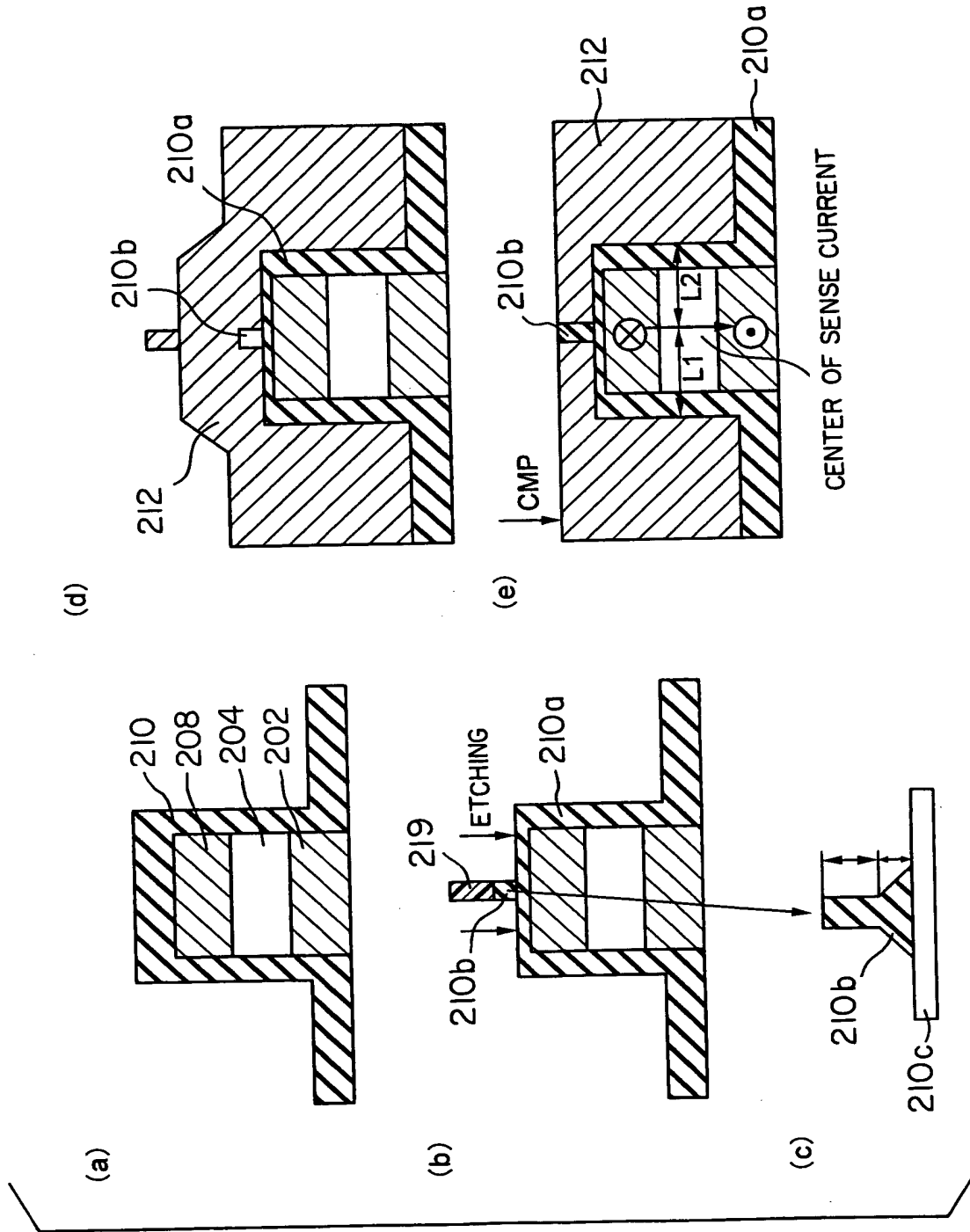


FIG. 42

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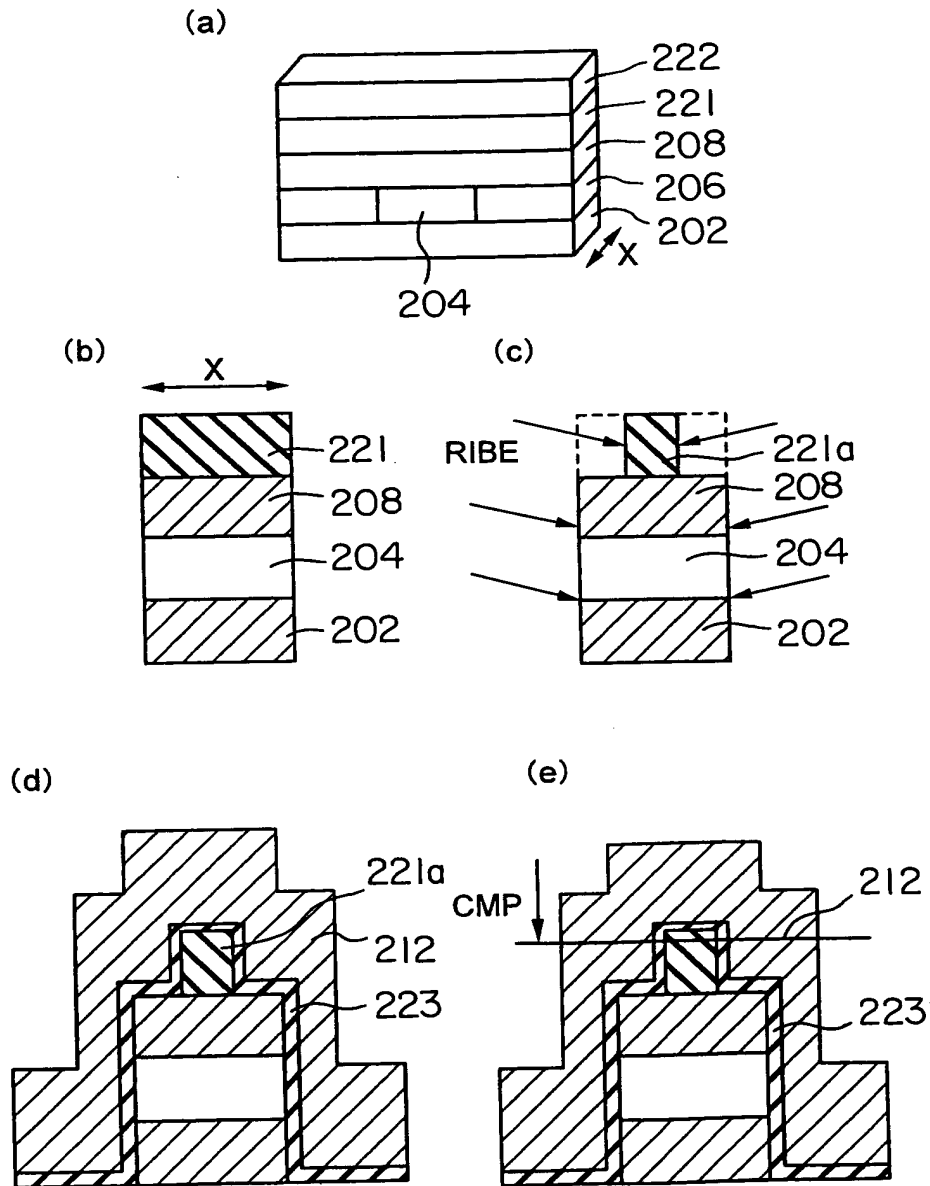


FIG. 43

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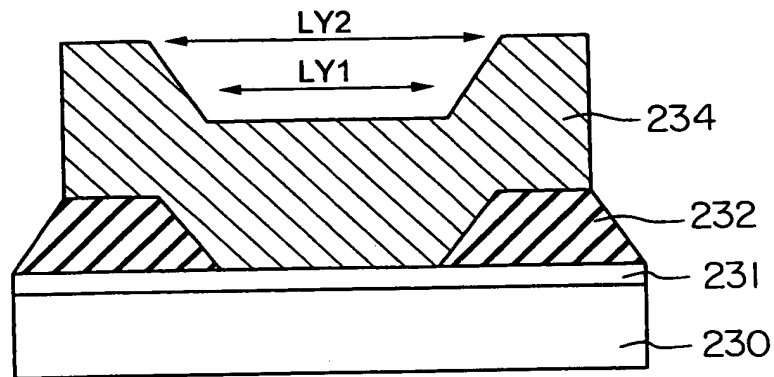


FIG. 44

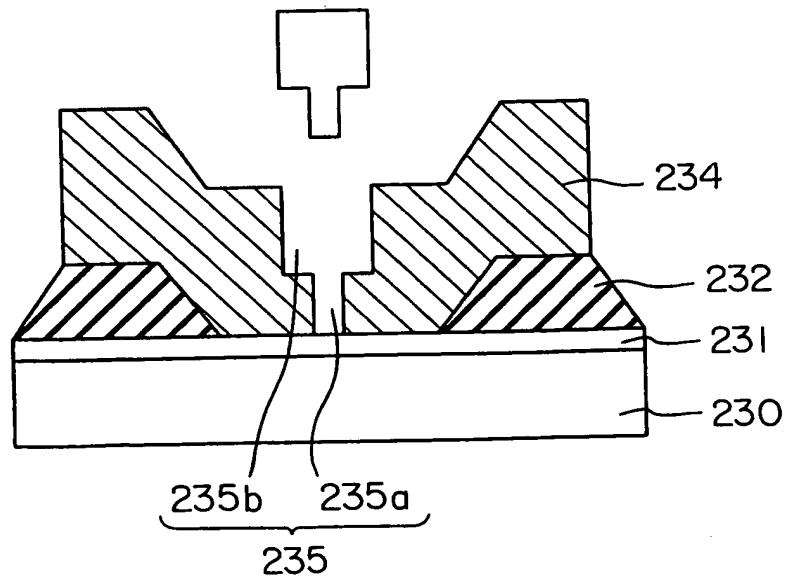


FIG. 45

FIG. 44



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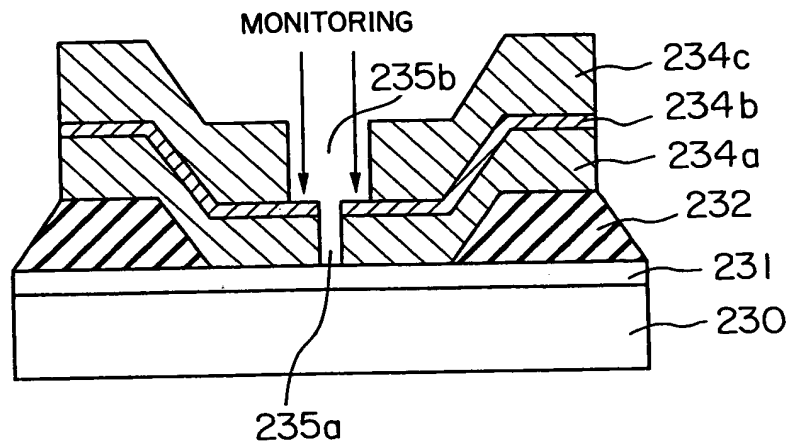


FIG. 46

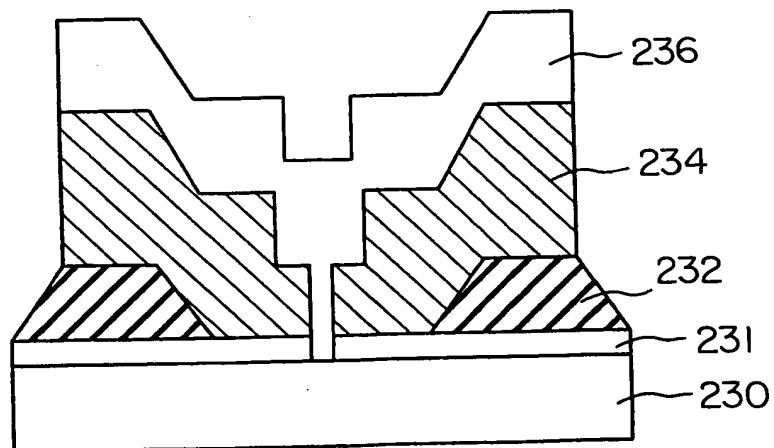


FIG. 47

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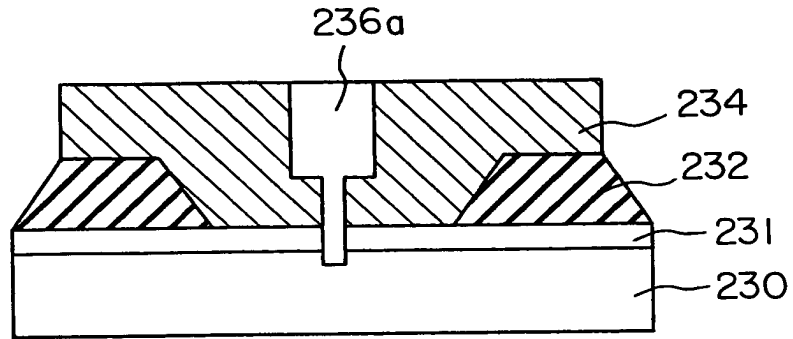


FIG. 48

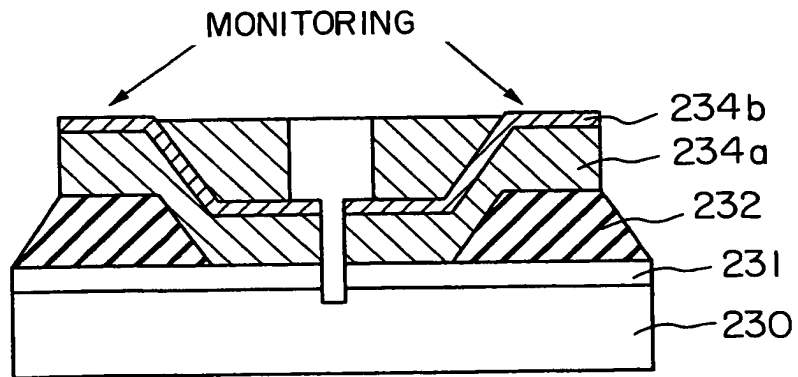


FIG. 49

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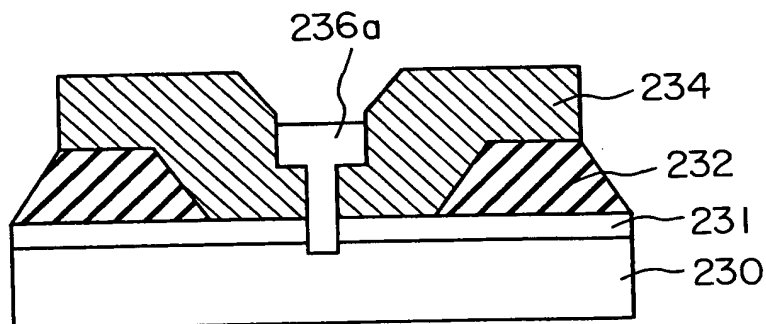


FIG. 50

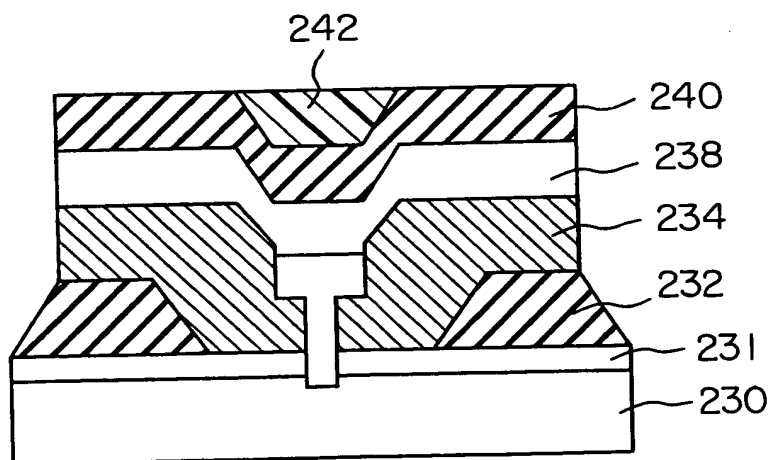


FIG. 51

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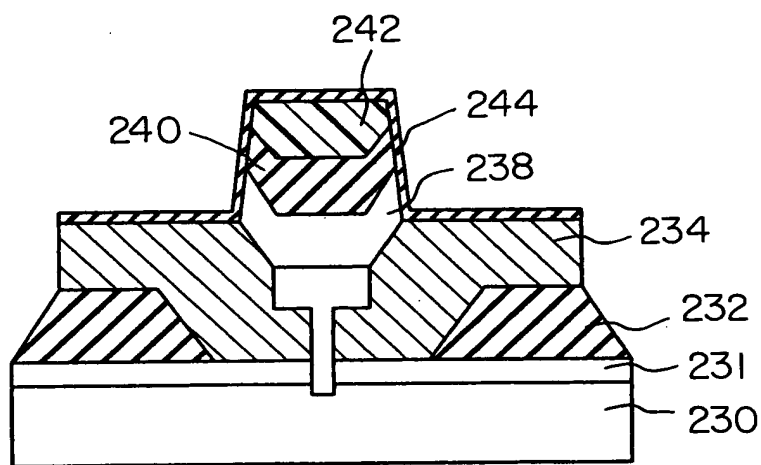


FIG. 52

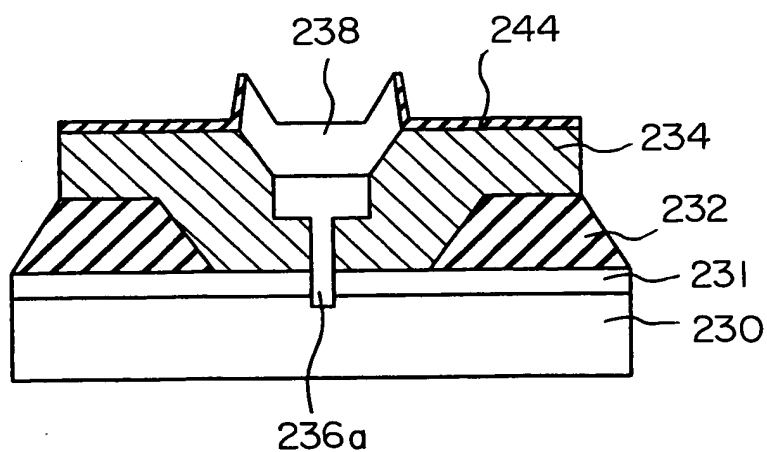


FIG. 53

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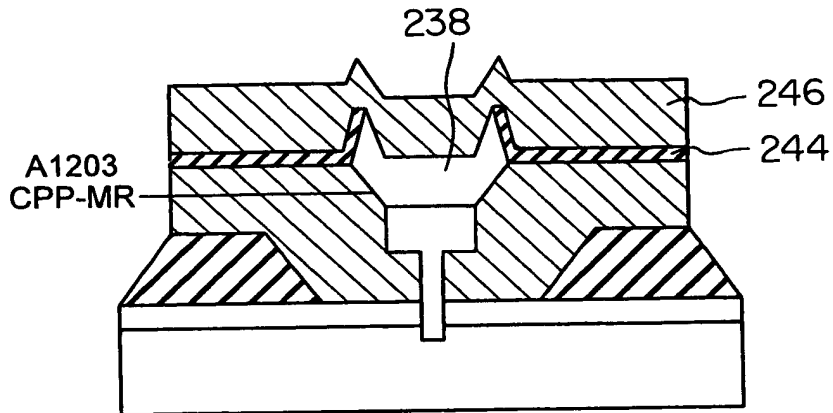


FIG. 54

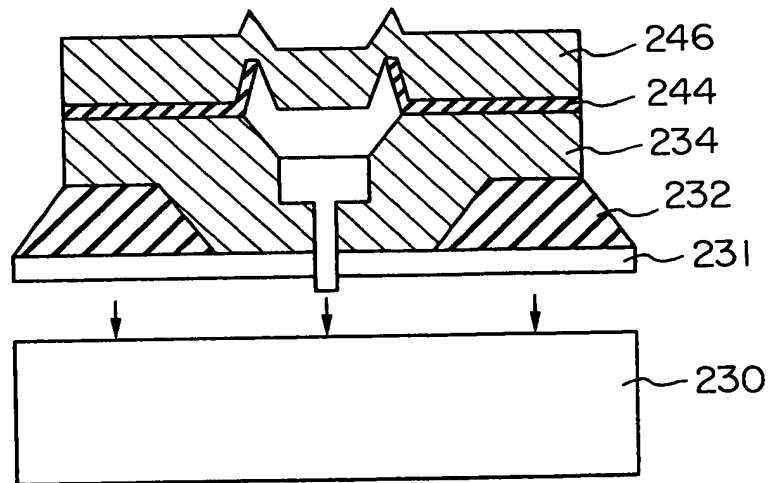


FIG. 55

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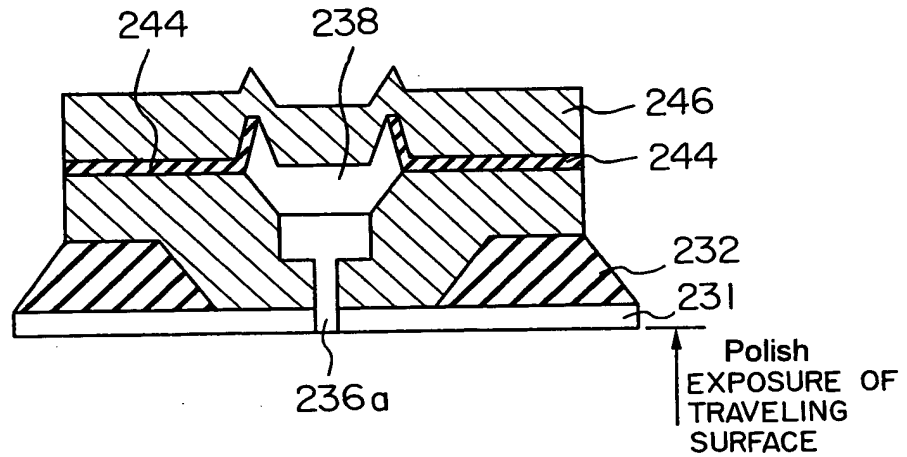


FIG. 56

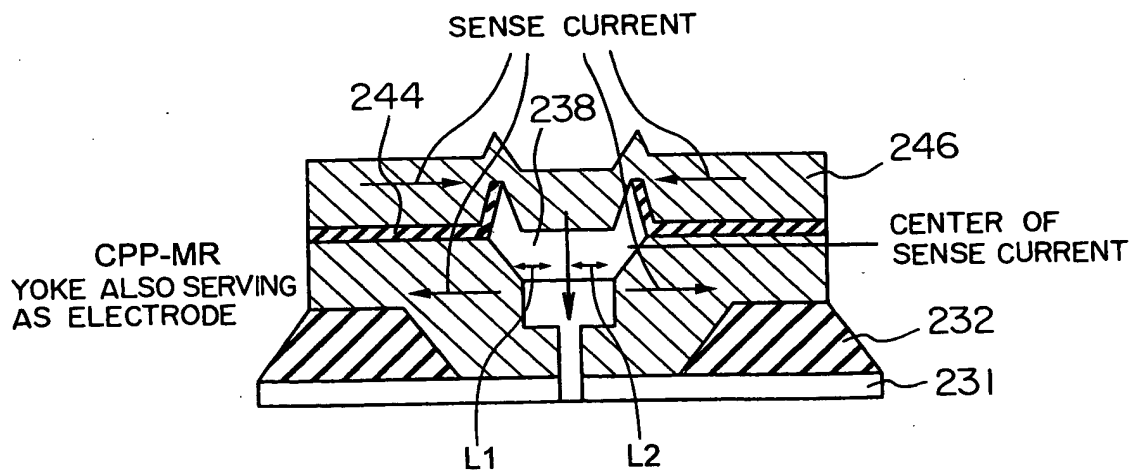
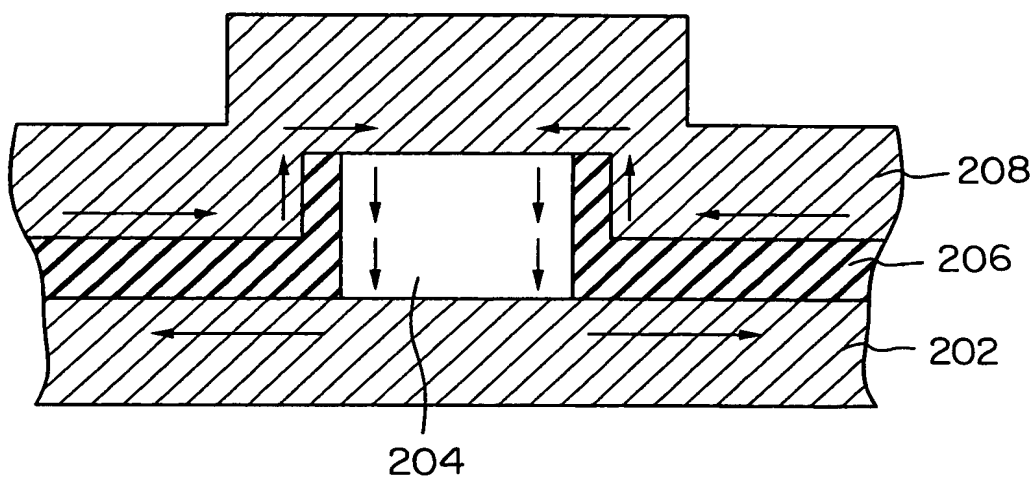


FIG. 57

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(a)



(b)

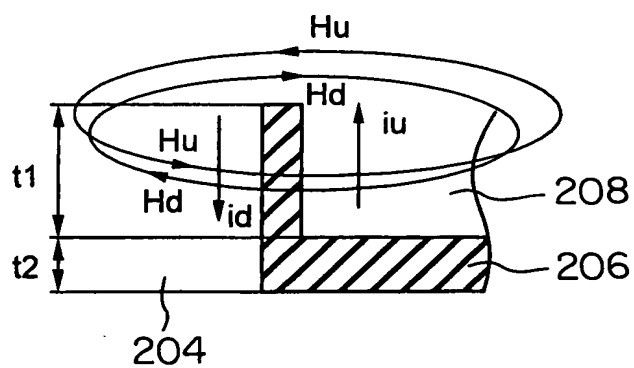


FIG. 58

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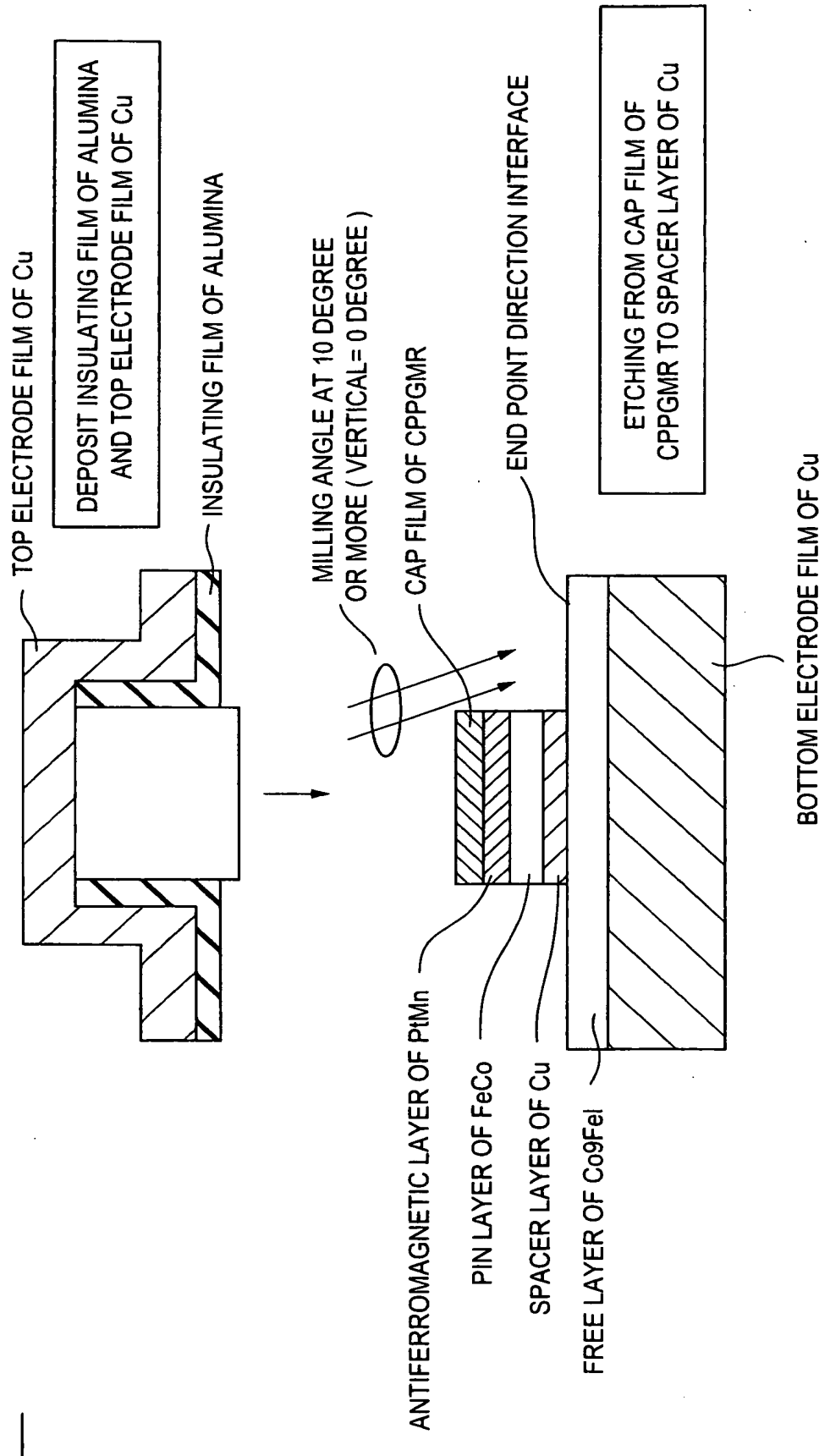


FIG.59



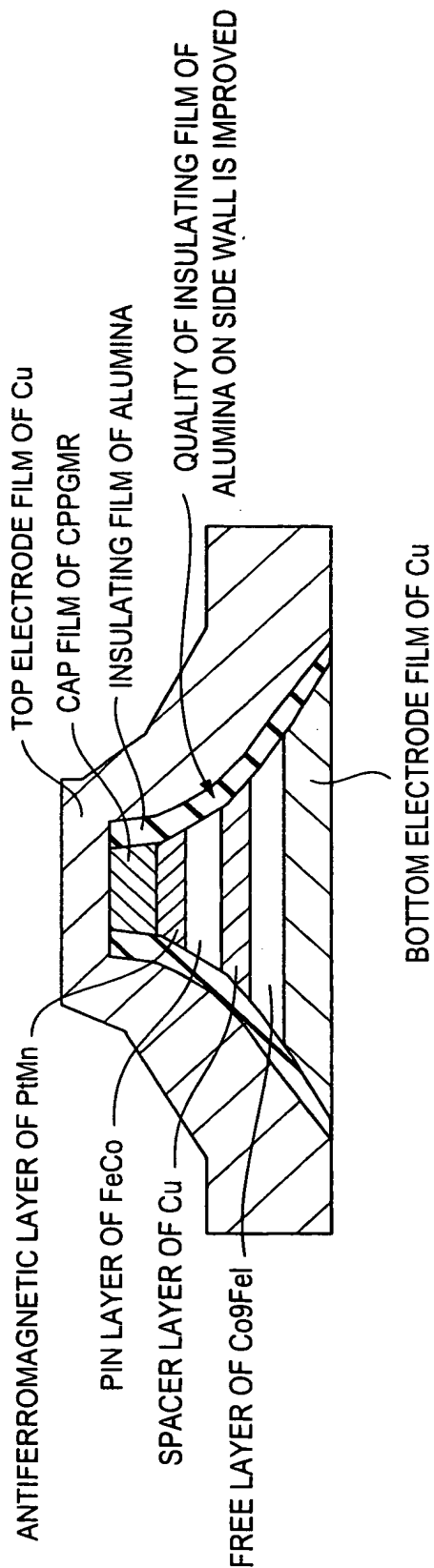


FIG.60

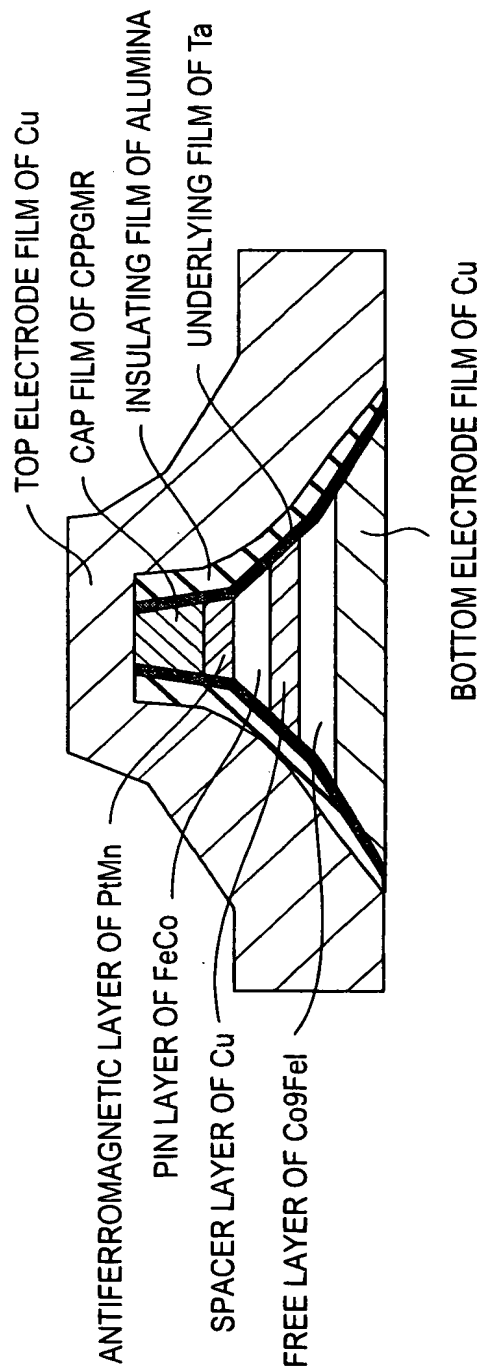


FIG.61

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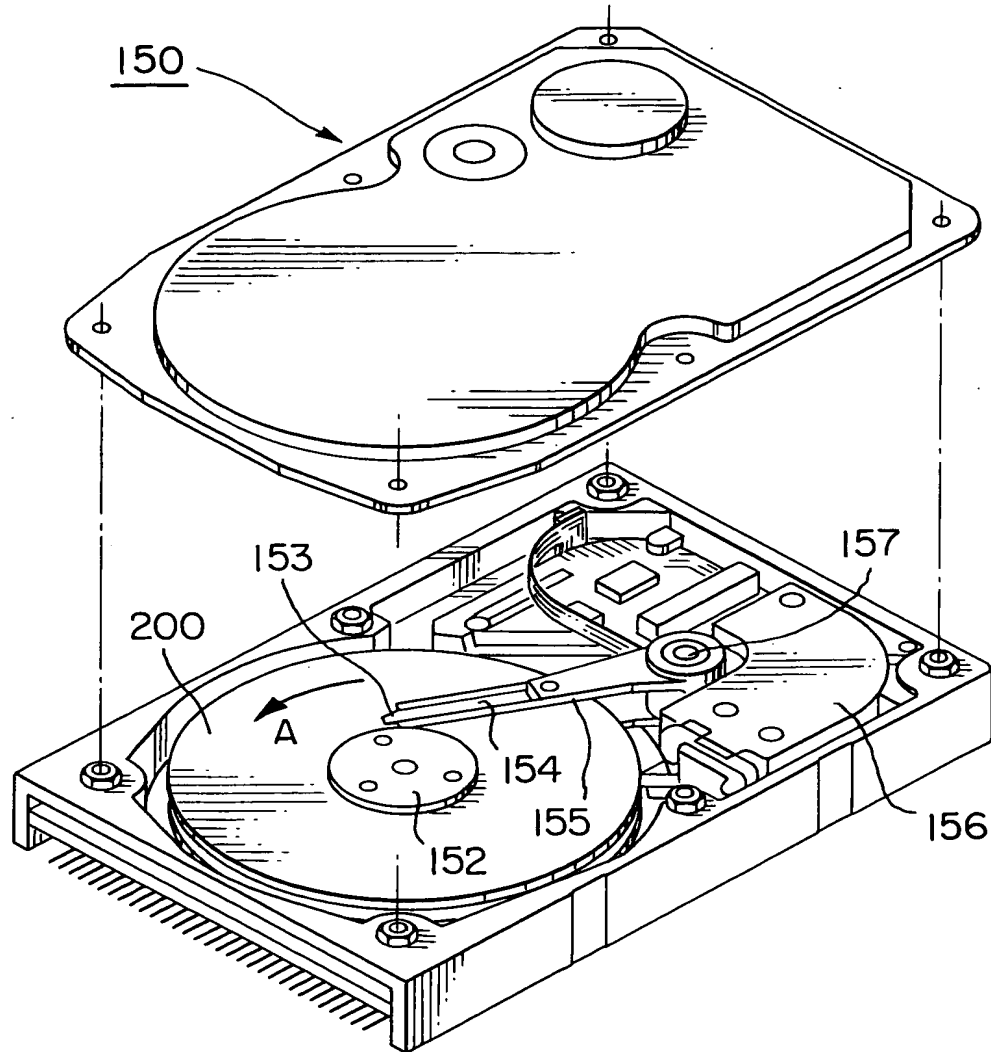


FIG. 62

FIG. 62

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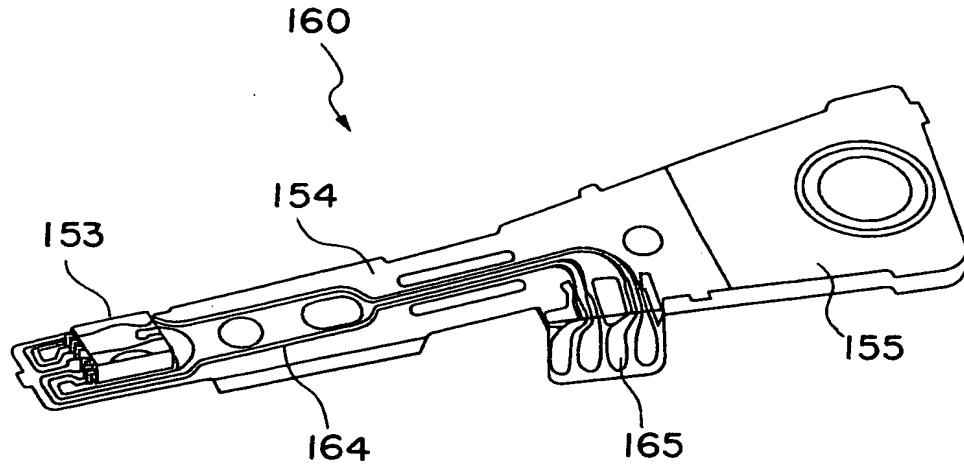


FIG. 63

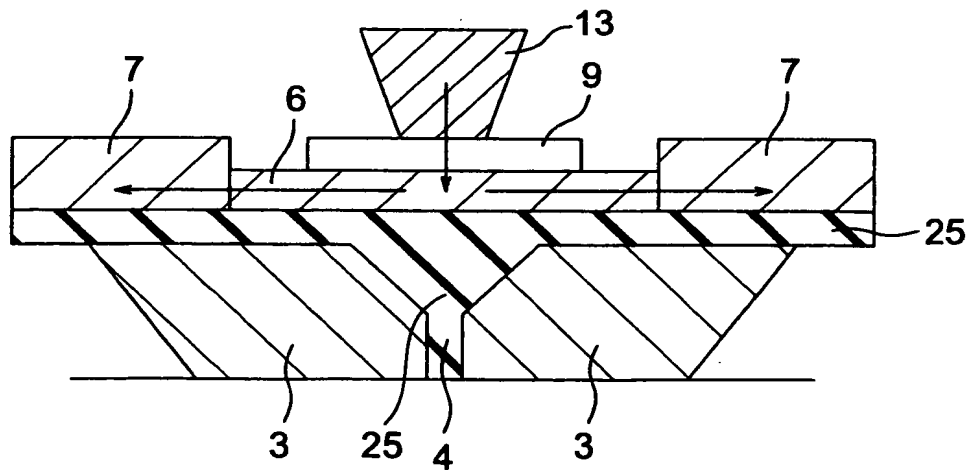


FIG. 64

FIG. 63